

FALL 2008



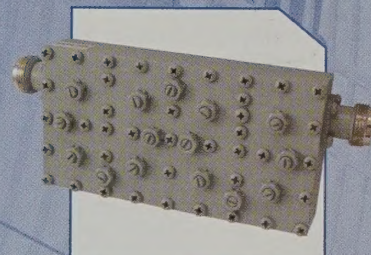
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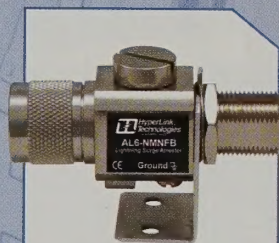
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for details

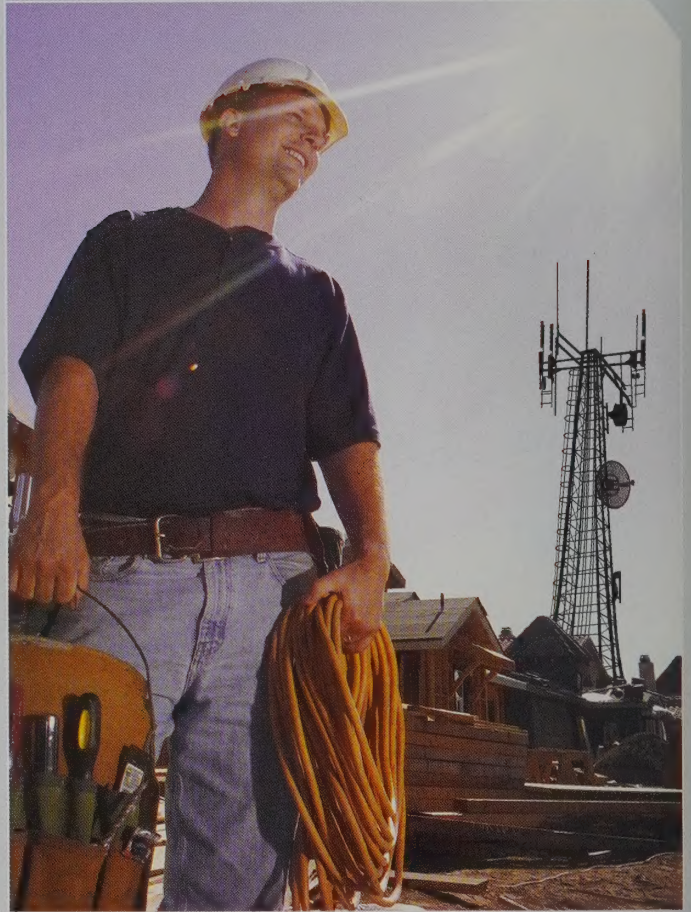
Your job just got easier

"HyperLink antennas and cables were essential components in the recent successful deployment of a WiFi network in a new residential subdivision. The wealth of detailed product descriptions and technical white papers on their web site was a huge help in choosing suitable hardware. The competitive pricing of HyperLink products didn't hurt either!" – Richard W.

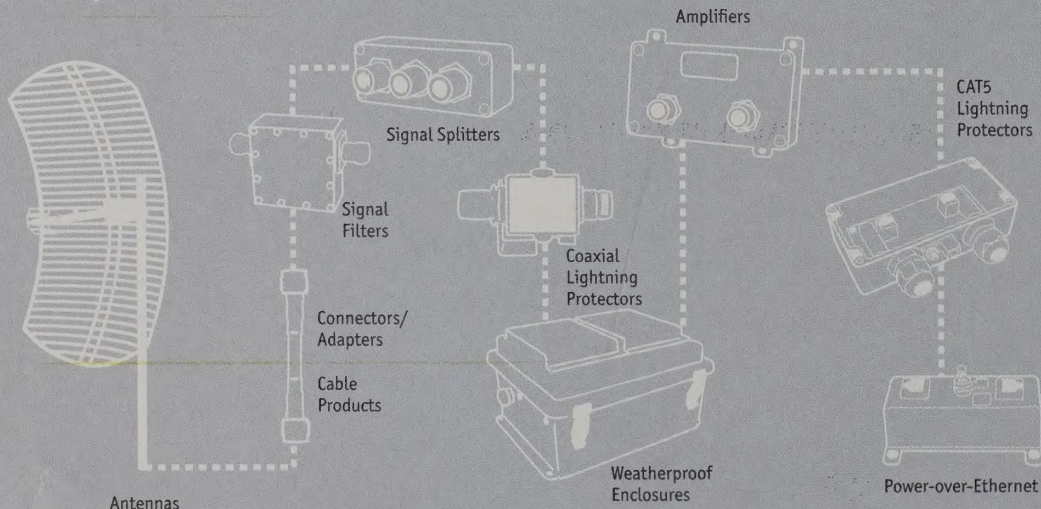
As you can see, it takes more than great products to help our customers succeed. Look inside this catalog for valuable Tech Tips and tutorials. Or, go online. Our Website is chock full of free tips, tutorials, product wizards, product comparisons, installation guides, and glossaries.

Call 877-485-8060 or visit us at www.hyperlinktech.com today and discover why thousands of customers world-wide have made HyperLink their One Stop Wireless Resource.

Your HyperLink Team

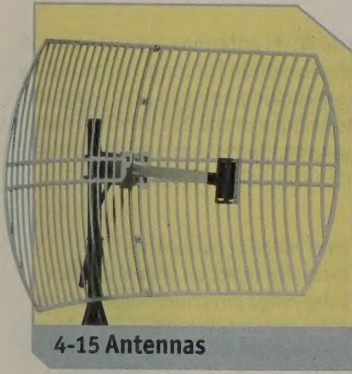
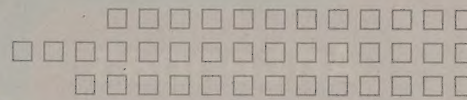


Complete Wireless Solutions



HyperLink provides everything you need from antennas to surge protectors. When implementing state of the art wireless communications systems, HyperLink has it all.

We've Got What You're Looking For...



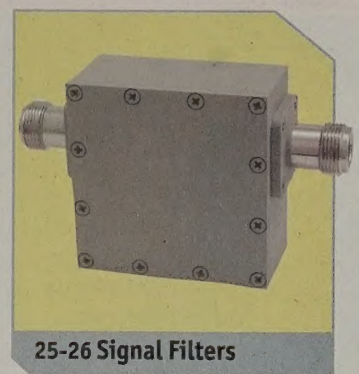
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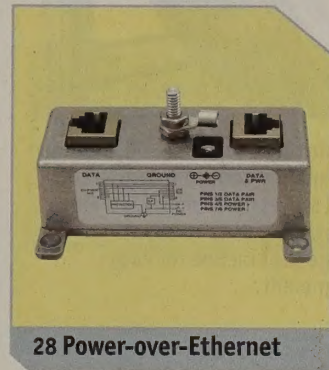
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Sales Manager**



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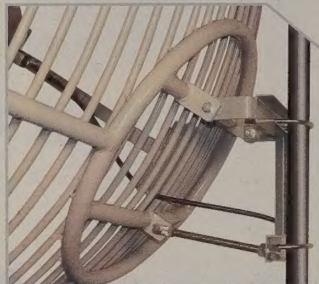
Get more info at: **www.hyperlinktech.com**

Antennas

Multiple frequencies supported

900 MHz, 2.4 GHz, 5.4 GHz and 5.8 GHz Grid Antennas

HyperGain® high performance reflector grid Wi-Fi antennas are available in gain ranges of 15 dBi to 30 dBi and are ideally suited for long-range highly directional applications. These applications include point to point systems, point to multi-point systems and wireless bridges in the 2.4 GHz ISM band as well as IEEE 802.11b/g/n wireless LAN systems. HyperLink's grid antennas can be installed for either vertical or horizontal polarization.



- Wide range of frequencies
- Extensive selection of gain choices
- Long-range directional applications
- Point to point systems
- Point to multi-point systems
- RoHS compliant

Mounting: The HG2430G antenna is supplied with a 60 degree tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment.

For a complete listing of HyperLink antennas and connector options visit www.hyperlinktech.com

GRID

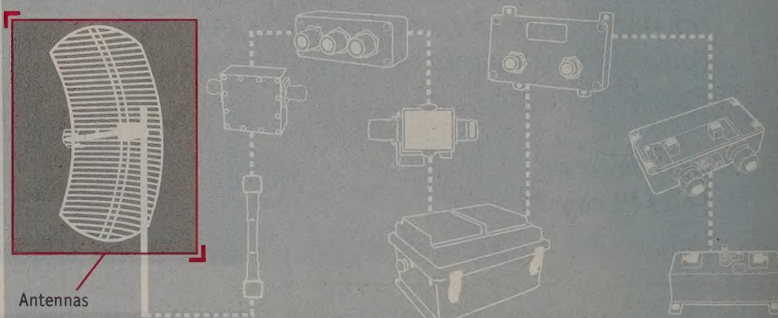
Item	Code	Description	Price
900 MHz GRID ANTENNAS			
NEW! HG915G-NF	A	15dBi, 30in Pigtail with NF Connector	\$70.99
NEW! HG915G-NF-5PK	A	15dBi, 30in Pigtail with NF Connector, 5-Pack	\$329.99
HG918G-NF-2	B	18dBi, 18in Pigtail with NF Connector	\$327.99
2.4 GHz GRID ANTENNAS			
HG2415G-NF	A	15dBi, 12in Pigtail with NF Connector	\$34.99
HG2415G-NF-5PK	A	15dBi, 12in Pigtail with NF Connector, 5-Pack	\$159.99
HG2415G-NM	A	15dBi, 12in Pigtail with NM Connector	\$49.99
HG2419G-NF	A	19dBi, 12in Pigtail with NF Connector	\$40.99
HG2419G-NF-5PK	A	19dBi, 12in Pigtail with NF Connector, 5-Pack	\$197.99
HG2424G-NF	A	24dBi, 12in Pigtail with NF Connector	\$54.99
HG2424G-NF-5PK	A	24dBi, 12in Pigtail with NF Connector, 5-Pack	\$249.99
HG2424G-NM	A	24dBi, 12in Pigtail with NM Connector	\$59.99
HG2424G-NM-5PK	A	24dBi, 12in Pigtail with NM Connector, 5-Pack	\$259.99
NEW! HG2427G	A	27dBi, Integral NF Connector	\$249.99
HG2430G	B	30dBi, 18in Pigtail with NF Connector	\$429.99
HG2430G-NM	B	30dBi, 18in Pigtail with NM Connector	\$479.99
5.4 GHz GRID ANTENNAS			
HG5421G	A	21dBi, Integral NF Connector	\$49.99
HG5421G-5PK	A	21dBi, Integral NF Connector, 5-Pack	\$239.99
HG5426G	A	26dBi, Integral NF Connector	\$53.99
HG5426G-5PK	A	26dBi, Integral NF Connector, 5-Pack	\$259.99
5.8 GHz GRID ANTENNAS			
HG5822G	A	22dBi, Integral NF Connector	\$49.99
HG5822G-5PK	A	22dBi, Integral NF Connector, 5-Pack	\$239.99
HG5827G	A	27dBi, Integral NF Connector	\$53.99
HG5827G-5PK	A	27dBi, Integral NF Connector, 5-Pack	\$259.99

HG2424G
CODE A

Tilt-swivel
mounting

CODE B

Complete Wireless Solutions



HyperLink Antennas—Clearly the Best

900 MHz, 1.9 GHz, 2.4 GHz, 2.6 GHz, 3.5 GHz, 5.3 GHz, 5.4 GHz and 5.8 GHz Omni Antennas

HyperLink offers a wide range of Wi-Fi Omni-Directional antennas for multi-point applications where very wide coverage is desired. Designed to operate in the harshest of environments, HyperLink's Omni antennas far exceed other Omni-Directional antennas. Multiple applications are supported including IEEE 802.11 a/b/g/n wireless LAN systems, 900 MHz ISM, Wi-Fi and WiMax.

- Multi-point applications
- Public Wireless Hotspots
- All weather operation
- Wi-Fi
- WiMax
- RoHS compliant



We Promise

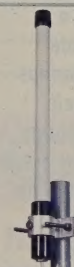
HyperLink will ship in stock products the same day on all orders received before 4:00 PM EST.

Rugged all weather operation

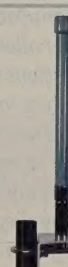
OMNI

Item	Code	Description	Price
900 MHz OMNI-DIRECTIONAL ANTENNAS			
HGV-906U	A	6dBi, Integral NF Connector	\$54.99
HG908U-PRO	A	8dBi, Integral NF Connector	\$124.99
1.9 GHz OMNI-DIRECTIONAL ANTENNAS			
HG1911U-PRO	A	11dBi, Integral NF Connector	\$139.99
2.4 GHz OMNI-DIRECTIONAL ANTENNAS			
HGV-2404U	D	4dBi, Integral NF Connector	\$37.99
HGV-2406U	D	6dBi, Integral NF Connector	\$39.99
HGV-2409U	D	8.5dBi, Integral NF Connector	\$49.99
HG2408U-NF	B	8dBi, 12in Pigtail with NF Connector	\$62.99
HG2408U-NM	B	8dBi, 12in Pigtail with NM Connector	\$69.99
HG2408U-RBP	B	8dBi, 12in Pigtail with RP-BNC Connector	\$69.99
HG2408U-RSP	B	8dBi, 12in Pigtail with RP-SMA Connector	\$69.99
HG2408U-RTP	B	8dBi, 12in Pigtail with RP-TNC Connector	\$69.99
HG2408U-PRO	A	8dBi, Integral NF Connector	\$64.99
HG2408U-PRO-5PK	A	8dBi, Integral NF Connector, 5-Pack	\$299.99
HG2409U	D	8.5dBi, Integral NM Connector	\$49.99
HG2409UM-RSP	D	8.5dBi, Marine, 3ft Pigtail with RP-SMA Connector	109.99
HGV-2410U	C	10dBi, Integral NF Connector	\$59.99
HG2412U-NF	C	12dBi, 12in Pigtail with NF Connector	\$59.99
HG2412U-NM	C	12dBi, 12in Pigtail with NM Connector	\$69.99
HG2412U-RTP	C	12dBi, 12in Pigtail with RP-TNC Connector	\$69.99
HG2415U-PRO	A	15dBi, Integral NF Connector	\$114.99
HG2415U-PRO-5PK	A	15dBi, Integral NF Connector, 5-Pack	\$499.99
2.6 GHz OMNI-DIRECTIONAL ANTENNAS			
HG2609U	D	8.5dBi, Integral NM Connector	\$59.99
3.5 GHz OMNI-DIRECTIONAL ANTENNAS			
HG3511U-PRO	B	11dBi, Integral NF Connector	\$74.99
HG3511U-PRO-5PK	B	11dBi, Integral NF Connector, 5-Pack	\$375.00
5.3/5.8 GHz OMNI-DIRECTIONAL ANTENNAS			
HG5310U	C	5.3 GHz 10dBi, Integral NF Connector	\$69.99
HG5412U	C	5.4 GHz, 12dBi, Integral NF Connector	\$79.99
HG5808U	C	5.8 GHz, 8dBi, Integral NF Connector	\$79.99
HG5812U-PRO	A	5.8 GHz, 12dBi, Integral NF Connector	\$89.99
HG5812U-PRO-5PK	A	5.8 GHz, 12dBi, Integral NF Connector, 5-Pack	\$439.99

HG5812U-PRO
CODE A



CODE B



CODE C

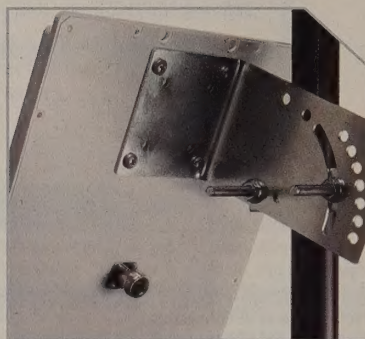


CODE D

900 MHz, 1.9 GHz, 2.4 GHz and 2.6 GHz Patch Antennas

HyperLink's high performance directional flat patch Wi-Fi antennas are available for indoor and outdoor applications covering multiple popular frequencies. These Wi-Fi antennas are lightweight and feature an aesthetic UV-stable, UL flame rated white plastic radome which can also be painted to match the room or building structure. These HyperGain® Patch antennas can be installed for horizontal or vertical polarization. Additionally, they can be wall or ceiling mounted, as well as mast mounted using U-bolts.

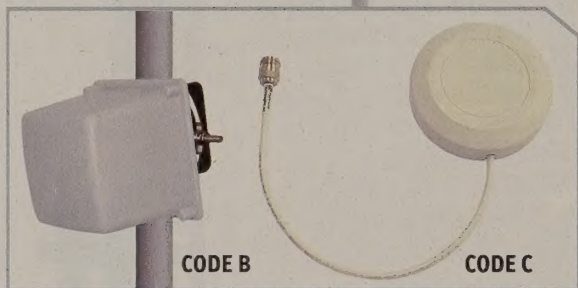
- *Point to point systems*
- *Point to multi-point systems*
- *Indoor and outdoor models available*
- *Compact size*
- *Very lightweight*
- *Easy to install*



Mounting: HyperLink's patch antennas offer several unique mounting options. They can be mounted flat against a wall, or to a mast using a pair of 2 inch U-bolts. The antennas also accept most tilt-and-swivel security camera brackets equipped with standard 1/4-20 threads.

For a complete listing of HyperLink antennas and connector options visit www.hyperlinktech.com

HG2414P
CODE A



CODE B

CODE C

Tech Talk:

*HyperLink is unique among most Wi-Fi antenna vendors by also being an antenna manufacturer. Being a manufacturer allows us to provide custom variations of all the antennas we manufacture in house or resell. In most cases we can ship out a large custom order in less than a week. Small custom orders are usually **shipped on the same day** they are received. HyperLink offers a broad range of antenna types covering 800 - 6000 MHz. Learn more at hyperlinktech.com.*

PATCH

Item	Code	Description	Price
900 MHz PATCH ANTENNAS			
HG908P-NF	A	8dBi, 8in Square, 12in Pigtail with NF Connector	\$44.99
HG908P-SM	A	8dBi, 8in Square, 12in Pigtail with SM Connector	\$44.99
1.9 GHz PATCH ANTENNAS			
HG1908P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	\$39.99
HG1912P-NF	A	12dBi, 8in Square, 12in Pigtail with NF Connector	\$49.99
2.4 GHz PATCH ANTENNAS			
HG2408P-NF	C	8dBi, 4in Round, 12in Pigtail with NF Connector	\$24.99
HG2409PCL-NF	A	8dBi, 4in Square, LH Cir Polarized, 12in Pigtail with NF Connector	\$29.99
HG2409PCR-NF	A	8dBi, 4in Square, RH Cir Polarized, 12in Pigtail with NF Connector	\$29.99
HG2409P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	\$21.99
HG2412P	B	12dBi, 4in Square, Integral NF Connector	\$25.99
HG2414P	A	14dBi, 8in Square, Integral NF Connector	\$34.99
HG2414P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	\$32.99
HG2416P	A	15.5dBi, 8in Square, Integral NF Connector	\$44.99
HG2458-09P	A	9dBi, 8in Square, Multi-Band, Integral NF Connector	\$69.99
2.6 GHz PATCH ANTENNAS			
HG2614P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	\$44.99

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1. What do you think of our product selection?

☐ Excellent

☐ Average

What products would you like to see? _____

2. What do you think of our prices?

☐ Excellent

☐ Average

3. What do you think of this catalog?

☐ Excellent

☐ Average

☐ Needs Work

How can we improve it? _____

4. Have you visited our new and enhanced website - www.HyperLinkTech.com?

☐ Yes

☐ No

5. How would you rate our website?

☐ Excellent

☐ Average

☐ Needs Work

How can we improve it? _____

6. Other comments: _____

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HLSP208

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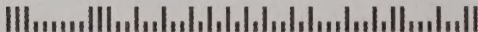
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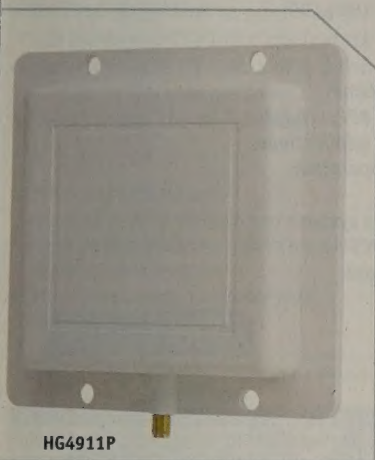


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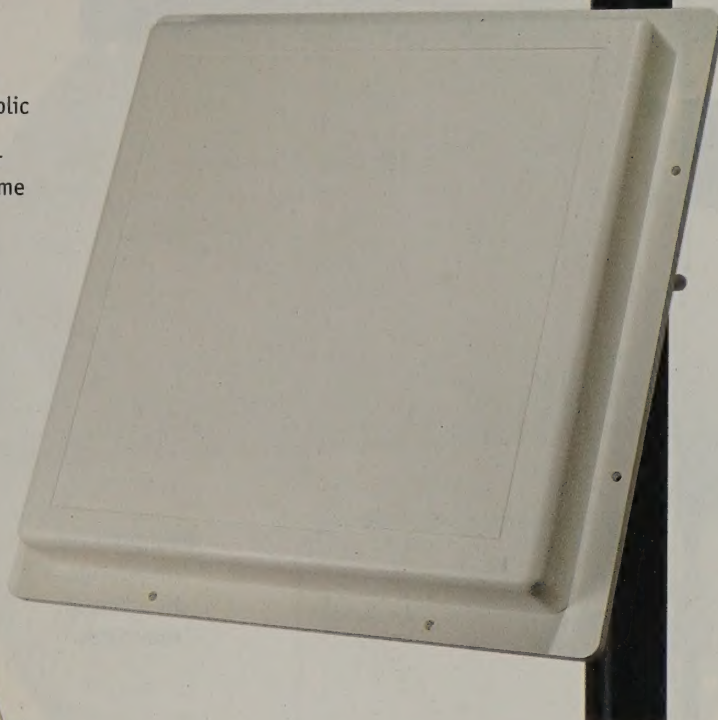


3.5 GHz, 4.9 GHz, 5.1 GHz, 5.3 GHz, 5.4 GHz and 5.8 GHz Patch Antennas

HyperLink's extensive line of patch antennas that cover frequencies from 3.5 to 5.8 GHz are ideal for applications such as WiMAX and public safety. Several of the Patch antennas are broadband/multi-band antennas that eliminate the need to purchase different antennas for each frequency being used. This simplifies installations since the same antenna can be used for a wide array of wireless applications.



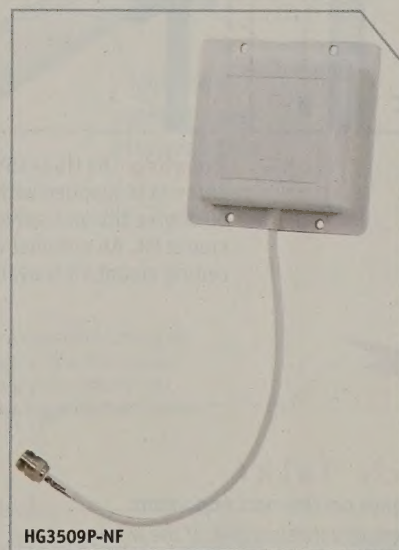
**Need longer
cable lengths?
See Page 35!**



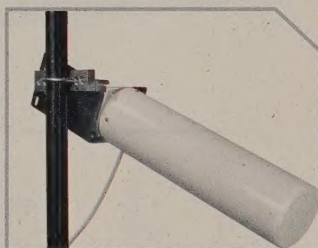
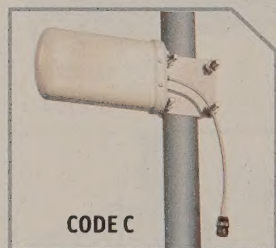
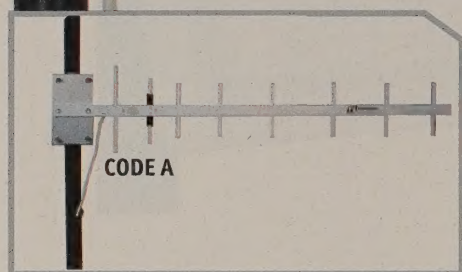
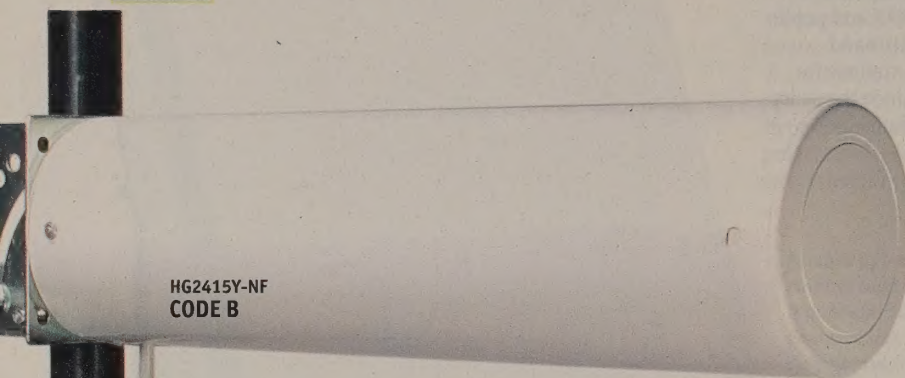
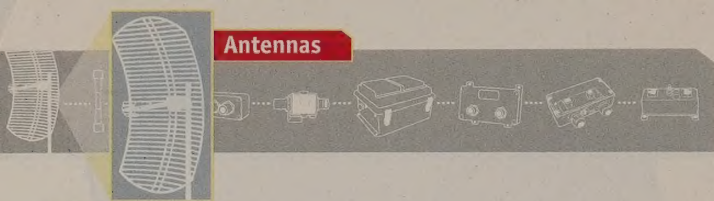
- *Homeland security*
- *Public safety services: fire, police, security*
- *Rapid deployment installations*
- *Large scale WLL*
- *Personal area network (PAN)*

PATCH

Item	Code	Description	Price
3.5 GHz PATCH ANTENNAS			
HG3509P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	\$39.99
HG3514P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	\$49.99
4.9 GHz PATCH ANTENNAS			
HG4953P	A	8dBi, 4in Square, Broadband, Integral SM Connector	\$49.99
HG4911P	A	11dBi, 4in Square, Integral SM Connector	\$49.99
5.3 GHz PATCH ANTENNAS			
HG5308P	A	8dBi, 4in Square, Integral SM Connector	\$39.99
HG5311P	A	11dBi, 4in Square, Integral SM Connector	\$49.99
5.4 GHz PATCH ANTENNAS			
HG5408P	A	8dBi, 4in Square, Integral SM Connector	\$39.99
HG5411P	A	11dBi, 4in Square, Integral SM Connector	\$49.99
HG5419P	A	19dBi, 7in Square, Integral FM Connector	\$49.99
5.8 GHz PATCH ANTENNAS			
HG5808P	A	8dBi, 4in Square, Integral SM Connector	\$39.99
HG5811P	A	11dBi, 4in Square, Integral SM Connector	\$49.99
HG5819P	A	19dBi, 7in Square, Integral FM Connector	\$49.99
HG5158P	A	8dBi, 4in Square, Broadband, Integral SF Connector	\$49.99
HG5158-23P	A	23dBi, 12in Square, Broadband, Integral NF Connector	\$79.99



- *3.6 GHz to 3.7 GHz (3650-3700 MHz) band applications*
- *IEEE 802.16e applications*
- *Mobile WiMAX*
- *SOFDMA*



Designed for
long-range
directional
operation

Mounting: The HG2415Y-NF antenna is supplied with a 60 degree tilt-and-swivel mast mount kit. An optional wall/ceiling mount kit is available.

900 MHz, 1.9 GHz, 2.4 GHz and 5.8 GHz Yagi Antennas

These rugged outdoor rated directional Yagi antennas are ideally suited for IEEE 802.11b/g/n (draft N), PCS, and 900 MHz ISM applications. HyperLink offers both radome enclosed models as well as non-radome enclosed Yagi antennas. A multitude of gain and connector options are available. For a complete listing of HyperLink's Yagi antennas visit www.hyperlinktech.com.

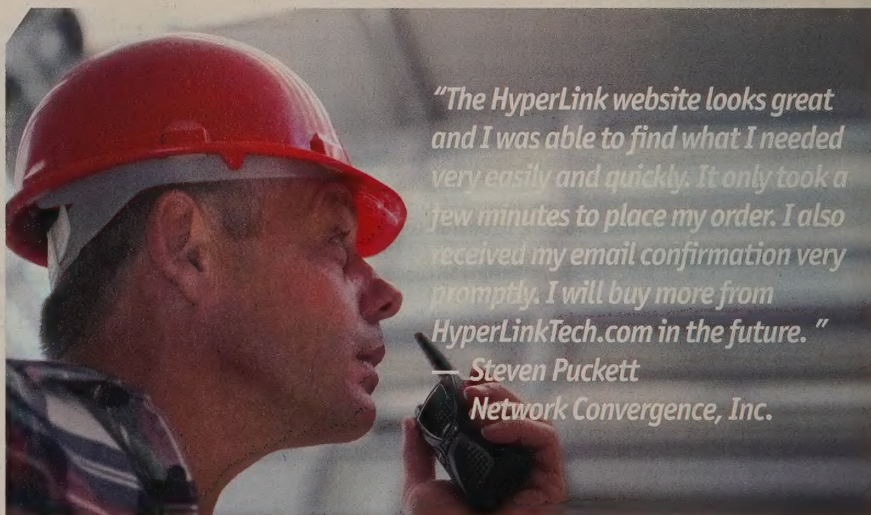
- 2.4 GHz ISM band
- 2.4 GHz IEEE 802.11b/g/n Wireless LAN applications
- All weather operation
- Wi-Fi
- Wireless video systems
- 1.9 GHz for PCS
- RoHS compliant

YAGI

Item	Code	Description	Price
900 MHz YAGI ANTENNAS			
HG909Y-NF	A	9dBi, Stainless Steel, 18in Pigtail with NF Connector	\$31.99
HG909Y-NM	A	9dBi, Stainless Steel, 18in Pigtail with NM Connector	\$45.99
HG913Y-NF	A	13dBi, Stainless Steel, 18in Pigtail with NF Connector	\$45.99
HG913Y-NM	A	13dBi, Stainless Steel, 18in Pigtail with NM Connector	\$59.99
HG914Y-NF	A	14dBi, Aluminum, 12in Pigtail with NF Connector	\$119.99
HG914Y-NM	A	14dBi, Aluminum, 12in Pigtail with NF Connector	\$129.99
1.9 GHz YAGI ANTENNAS			
NEW! HG1912SY-NF	A	12dBi, Stainless Steel, 7in Pigtail with NF Connector	\$44.99
2.4 GHz YAGI ANTENNAS			
HG2409Y-NF	B	9dBi, Radome Enclosed, 12in Pigtail with NF Connector	\$39.99
HG2409Y-NM	B	9dBi, Radome Enclosed, 12in Pigtail with NM Connector	\$49.99
NEW! HG2412SY-NF	A	12dBi, Stainless Steel, 7in Pigtail with NF Connector	\$44.99
HG2412Y-NF	B	12dBi, Radome Enclosed, 12in Pigtail with NF Connector	\$44.99
HG2412Y-NM	B	12dBi, Radome Enclosed, 12in Pigtail with NM Connector	\$54.99
HG2415Y-NF	B	14.5dBi, Radome Enclosed, 12in Pigtail with NF Connector	\$44.99
HG2415Y-NM	B	14.5dBi, Radome Enclosed, 12in Pigtail with NM Connector	\$44.99
2.4/5.8 GHz LOG PERIODIC ANTENNAS			
NEW! HG2458-08LP-NF	C	8dBi, Radome Enclosed, 9in Pigtail with NF Connector	\$64.99

Tech Talk:

Antennas are the most **important** element of a wireless link. If the wrong antenna is chosen, the link will not work. Antennas come in all shapes and sizes. They can look quite different from each other yet they can have similar performance and **radiation patterns**. In many cases the choice of antenna type is based on personal preference or aesthetics in addition to performance and cost. Learn more at hyperlinktech.com.



"The HyperLink website looks great and I was able to find what I needed very easily and quickly. It only took a few minutes to place my order. I also received my email confirmation very promptly. I will buy more from HyperLinkTech.com in the future."

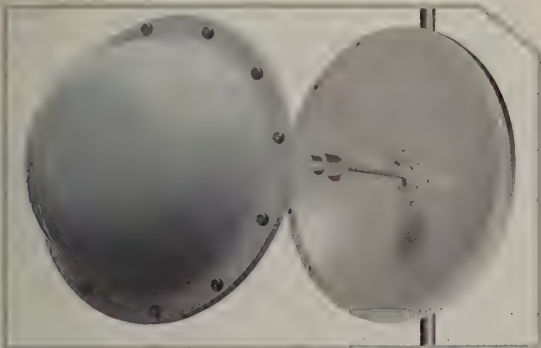
— Steven Puckett
Network Convergence, Inc.

2.4 GHz, 3.5 GHz, 5.1 GHz, 5.3 GHz, 5.4 GHz and 5.8 GHz Parabolic Dish Antennas

HyperLink's Wi-Fi parabolic dish antennas feature a high quality aluminum reflector dish for superior strength. The dish is coated in a light gray UV-inhibited polymer for durability and aesthetics. These directional dish antennas can be used in point to point as well as point to multi-point applications.

HyperGain® radome covers are an ideal way to provide additional protection to our parabolic dish antennas. These lightweight radome kits feature fiberglass construction and UV stable gray finish. Drain holes are provided on the radome cover to help prevent moisture build-up inside the dish antenna.

- *Point to point systems*
- *Point to multi-point systems*
- *High quality aluminum construction*
- *All weather operation*
- *Many frequencies to choose from*
- *RoHS compliant*



Radome cover - protects against the elements



Optional
radome cover
kits available

DISH

Item	Code	Description	Price
HG2414D	D	14dBi, 260mm DIA, Integral NF Connector	\$33.99
HG3516D	A	16dBi, 246mm DIA, Integral NF Connector	\$49.99
HG5328D	B	28dBi, 600mm DIA, Integral NF Connector	\$162.99
HG5423D	B	23dBi, 400mm DIA, Integral NF Connector	\$129.99
HG5428D	B	28dBi, 600mm DIA, Integral NF Connector	\$162.99
HG5432D	B	32dBi, 900mm DIA, Integral NF Connector	\$239.99
HG5817D	A	17dBi, 246mm DIA, Integral NF Connector	\$39.99
HG5824D	B	24dBi, 400mm DIA, Integral NF Connector	\$129.99
HG5829D	B	29dBi, 600mm DIA, Integral NF Connector	\$162.99
HG5833D	B	33dBi, 900mm DIA, Integral NF Connector	\$239.99
HG5158D	C	30dBi, Offset Feed, 830mm DIA, Integral NF Connector	\$149.99
HG5158DP-29D	B	28.5dBi, Dual Polarized, 600mm DIA, Integral NF Connector	\$259.99
HG5158DP-32D	B	32dBi, Dual Polarized, 900mm DIA, Integral NF Connector	\$329.99
HGR-04		Radome Cover Kit for 400mm DIA Dish	\$42.99
HGR-06		Radome Cover Kit for 600mm DIA Dish	\$49.99
HGR-09		Radome Cover Kit for 900mm DIA Dish	\$69.99



For a complete listing of HyperLink antennas and connector options visit www.hyperlinktech.com



900 MHz, 1.9 GHz, 2.4/5.8 GHz and 3.5 GHz Rubber Duck Antennas

These high performance Omni-Directional Rubber Duck antennas provide broad coverage and multiple gain options. HyperLink's flexible Rubber Duck antennas feature tilt-and-swivel connectors allowing them to be used vertically, at a right angle, or any angle in-between. Suitable as a replacement RF antenna for radios, wireless video transmitters and receivers, as well as digital spread spectrum radios.



HG2458-5RD-RSP
CODE A

- Tilt-and-swivel connectors
- Point to point systems
- Point to multi-point systems
- Multipoint and mobile applications
- Wi-Fi access points
- Multiple frequency choices



CODE B

CODE C

1.9 GHz, 2.4 GHz Rubber Duck Desktop Mobile Antennas

HyperGain® Omni-Directional Rubber Duck wireless LAN antennas provide broad coverage and 3- 9 dBi gain. These magnetic mount antennas feature a coaxial sleeve design with an Omni-Directional pattern. These antennas were designed for IEEE 802.11b/g/n wireless LANs and 1.9 GHz cellular PCS radio applications. Mobile applications for these antennas include service vehicles, public transportation, mining vehicles, as well as numerous other commercial and industrial applications where mobility is required. The magnetic base is suitable for affixing to vehicles or other metal surfaces as well as sitting on a tabletop or shelf.

- Rugged magnetic base
- 2.4 GHz IEEE 802.11b/g/n Wireless LAN applications
- 1.9 GHz PCS cellular
- Compact size
- RoHS compliant

HG1903MGRD-SM



HMA6-RSP05, see Page 12.

RUBBER DUCK

Part Number	Gain	Connector	Price
HG903RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	\$10.99
HG903RD-SM	B	3dBi, Integral Tilt/Swivel SM Connector	\$10.99
HG905RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	\$19.99
HG905RD-SM	B	5dBi, Integral Tilt/Swivel SM Connector	\$19.99
HG1903RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	\$9.99
HG2401RD-MMCX	C	1dBi, Integral Rt Angle Fixed Mount MMCX Connector	\$4.99
HG2401RD-MC	C	1dBi, Integral Rt Angle Fixed Mount MC Connector	\$2.99
HG2402RD-RSF	B	2.2dBi, Integral Tilt/Swivel RP-SMA Connector	\$5.99
HG2403RD-NM	B	3dBi, Integral Tilt/Swivel NM Connector	\$7.99
HG2403RD-RSF	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	\$7.99
HG2403RD-RTF	B	3dBi, Integral Tilt/Swivel RP-TNC Connector	\$7.99
HG2405RD-NM	B	5dBi, Integral Tilt/Swivel NM Connector	\$14.99
HG2405RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	\$9.99
HG2405RD-RTP	B	5dBi, Integral Tilt/Swivel RP-TNC Connector	\$9.99
HG2407RD-NM	B	7dBi, Integral Tilt/Swivel NM Connector	\$9.99
HG2407RD-RSP	B	7dBi, Integral Tilt/Swivel RP-SMA Connector	\$12.99
HG2407RD-RTP	B	7dBi, Integral Tilt/Swivel RP-TNC Connector	\$12.99
HG2407RD-SM	B	7dBi, Integral Tilt/Swivel SM Connector	\$15.99
HG2409RD-NM	B	9dBi, Integral Tilt/Swivel NM Connector	\$22.99
HG2409RD-RSP	B	9dBi, Integral Tilt/Swivel RP-SMA Connector	\$18.99
HG2409RD-RTP	B	9dBi, Integral Tilt/Swivel RP-TNC Connector	\$18.99
HG2409RD-SM	B	9dBi, Integral Tilt/Swivel SM Connector	\$18.99
HG3505RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	\$14.99
HG2458-5RD-RSP	A	3/5dBi, Integral Tilt/Swivel RP-SMA Connector	\$16.99
HG2458RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	\$12.99
HG2458RD-SM	B	3dBi, Integral Tilt/Swivel SM Connector	\$12.99
HG2458RD-TM	B	3dBi, Integral Tilt/Swivel TM Connector	\$6.49

See page 32 for mounting options.



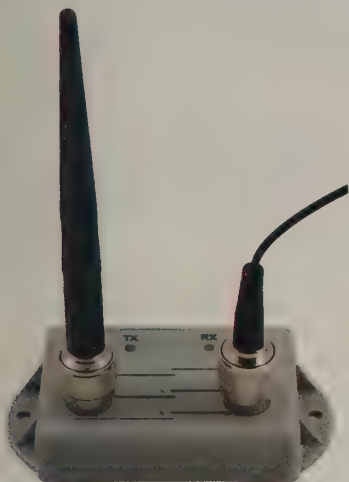
For a complete listing of HyperLink antennas and connector options visit www.hyperlinktech.com

MAGNETIC MOUNT RUBBER DUCK

Part Number	Gain	Cable Length	Connector	Price
HG1903MGRD-SM	3dBi	5ft	Cable with SM Connector	\$19.99
HG1903MGRD-SNP	3dBi	5ft	Cable with SMA-Nano Connector	\$19.99
HG2407MGRD-RSP	7dBi	5ft	Cable with RP-SMA Connector	\$19.99
HG2407MGRD-RTP	7dBi	5ft	Cable with RP-TNC Connector	\$19.99
HG2409MGRD-RSP	9dBi	5ft	Cable with RP-SMA Connector	\$25.99
HG2409MGRD-RTP	9dBi	5ft	Cable with RP-TNC Connector	\$25.99
HG2458MGRD-RSP	3/5dBi	5ft	Cable with RP-SMA Connector	\$24.99
HG2458MGRD-RTP	3/5dBi	5ft	Cable with RP-TNC Connector	\$24.99

Styles for Every Application

HyperLink's Rubber Duck antennas make suitable replacement antennas for many popular wireless access points and wireless routers. Our higher gain Rubber Duck antennas can also help achieve greater range and improved signal than most stock antennas that come with those types of radios.

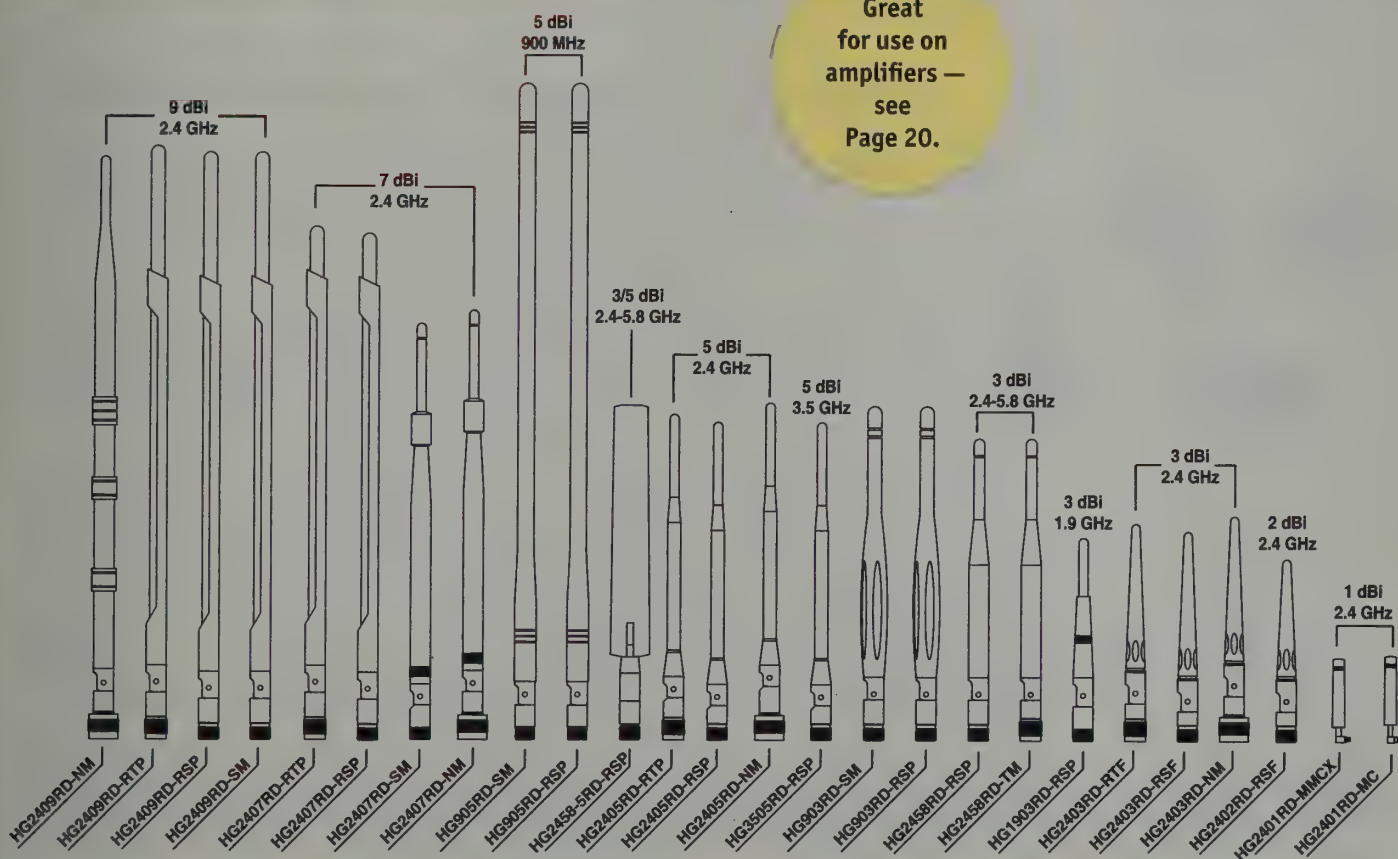


HG2403RD-NM shown on HA2401MG-1000 2.4 GHz compact amplifier (see Page 21).



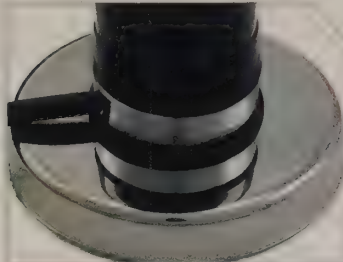
HG2405RD-RTP shown on a Linksys® WAP54G wireless access point

Check out this Handy Chart



2.4 GHz Mobile Mount Antennas

HyperLink's extensive line of magnetic mount and mast mount mobile Omni-Directional antennas are perfect for demanding mobile applications including law enforcement, construction vehicles, and mobile metering. Several styles are offered with many frequency and gain choices supporting IEEE 802.11b/g/n.



- All weather construction
- IEEE 802.11b/g/n
- Bluetooth® and Wi-Fi
- Magnetic and mast mount options
- RoHS compliant

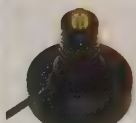
**Ideal
for mobile
outdoor
applications**

Mounting: Magnetic mounting system.
A fixed mount is also available for permanent installation through the roof or other vehicle surface.



For a complete listing of HyperLink antennas and connector options visit www.hyperlinktech.com

HG2403MGURW
CODE F



CODE A



CODE B



CODE C



CODE E



CODE D



CODE G



CODE H



CODE I

HMA6-RSP05	A	RP-SMA Jack to RP-SMA Plug, 5ft 100-Series	\$14.99
HMA6-RSP10	A	RP-SMA Jack to RP-SMA Plug, 10ft 100-Series	\$19.99
HMA6-RTP05	A	RP-SMA Jack to RP-TNC Plug, 5ft 100-Series	\$14.99
HMA6-RTP10	A	RP-SMA Jack to RP-TNC Plug, 10ft 100-Series	\$19.99
HMA1-NFA10	B	NMO to N-Female, 10ft 195-Series	\$19.95
HMA1-NMA10	B	NMO to N-Male, 10ft 195-Series	\$19.95
HMA1-RSPA10	B	NMO to RP-SMA Plug, 10ft 195-Series	\$19.95
HMA1-RTPA10	B	NMO to RP-TNC Plug, 10ft 195-Series	\$19.95
HMA3-NFA10	C	N-Female to N-Female, 10ft 195-Series	\$24.99
HMA3-NMA10	C	N-Female to N-Male, 10ft 195-Series	\$24.99
HMA3-RSPA10	C	N-Female to RP-SMA Plug, 10ft 195-Series	\$24.99
HMA3-RTPA10	C	N-Female to RP-TNC Plug, 10ft 195-Series	\$24.99

HG2403MGU-NM	E	3dBi, Dual Band, 10ft Cable with NM Connector	\$34.99
HG2403MGU-RSP	E	3dBi, Dual Band, 10ft Cable with RP-SMA Connector	\$44.99
HG2403MGU-RTP	E	3dBi, Dual Band, 10ft Cable with RP-TNC Connector	\$44.99
HG2403MGURW-NM	F	3dBi, White Radome, 10ft Cable with NM Connector	\$34.99
HG2403MGURW-RSP	F	3dBi, White Radome, 10ft Cable with RP-SMA Connector	\$44.99
HG2403MGURW-RTP	F	3dBi, White Radome, 10ft Cable with RP-TNC Connector	\$44.99
HG2403MGURB-NM	F	3dBi, Black Radome, 10ft Cable with NM Connector	\$34.99
HG2403MGURB-RSP	F	3dBi, Black Radome, 10ft Cable with RP-SMA Connector	\$44.99
HG2403MGURB-RTP	F	3dBi, Black Radome, 10ft Cable with RP-TNC Connector	\$44.99
HG2405MGU-NM	D	5dBi, 10ft Cable with NM Connector	\$39.99
HG2405MGU-RSP	D	5dBi, 10ft Cable with RP-SMA Connector	\$49.99
HG2405MGU-RTP	D	5dBi, 10ft Cable with RP-TNC Connector	\$49.99
HG2407MGU-NF	H	7dBi, 10ft Cable with NF Connector	\$39.99
HG2407MGU-RSP	H	7dBi, 10ft Cable with RP-SMA Connector	\$49.99
HG2409MGU-NF	I	8.5dBi, 10ft Cable with NF Connector	\$64.99
HG2409MGU-NM	I	8.5dBi, 10ft Cable with NM Connector	\$64.99
HG2409MGU-RSP	I	8.5dBi, 10ft Cable with RP-SMA Connector	\$74.99

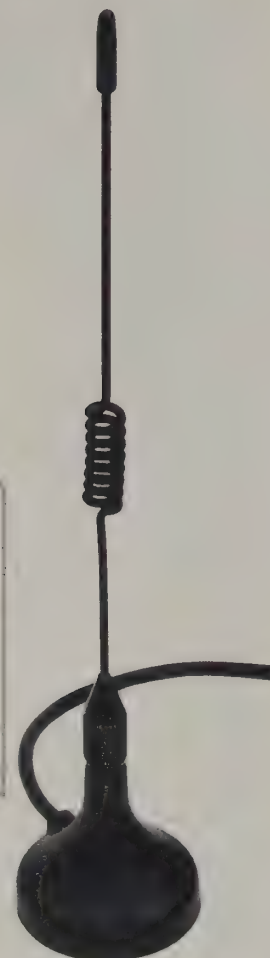
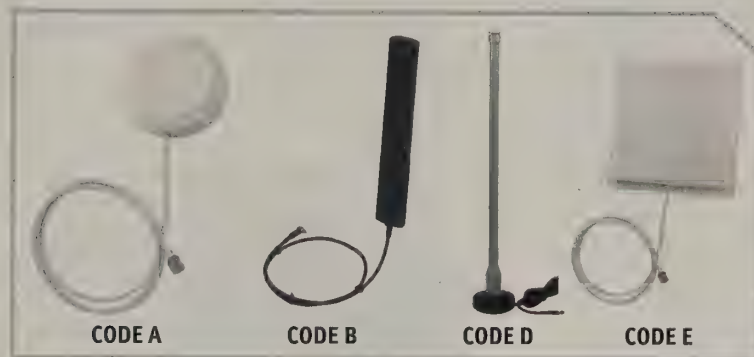
HG2403U-NMO	E	3dBi, Dual Band, Integral NMO Connector	\$29.99
HG2403UR-NMOW	F	3dBi, White Radome, Integral NMO Connector	\$29.99
HG2403UR-NMOB	F	3dBi, Black Radome, Integral NMO Connector	\$29.99
HG2405U-NMO	D	5dBi, Integral NMO Connector	\$19.99
HG2405UR-NMO	G	5dBi, Black Radome, Flex-Base, Integral NMO Connector	\$99.99
HG2407U	H	7dBi, Integral NM Connector	\$24.99
HG2409U	I	8.5dBi, Integral NM Connector	\$49.99

900 MHz, 1.2 GHz, 1.9 GHz and 2.4 GHz

Range Extender Antennas

HyperLink's range extender antennas can be used to achieve greater range than standard Rubber Duck antennas or a PC card's internal antenna. Full 360° coverage is provided by the Omni-Directional antennas and the Patch style range extender antennas feature directional operation. This series supports various applications including 2.4 GHz IEEE 802.11b/g/n wireless LANs, 800-1800 MHz ISM, GSM and RFID. Patch style antennas are designed for indoor use only and the Omni-Directional style range extenders can be used indoors or outdoors.

- Greater range than typical Rubber Duck antennas
- Multiple application/frequency choices
- Directional and Omni-Directional options
- Mobile applications
- IEEE 802.11b/g/n
- RoHS compliant



RANGE EXTENDERS

900 MHz RANGE EXTENDER ANTENNAS			
RE905U-RSP	C	5dBi, Integral MAG Base, 4ft Cable with RP-SMA Connector	\$19.99
RE905U-SM	C	5dBi, Integral MAG Base, 4ft Cable with SM Connector	\$19.99
1.2 GHz RANGE EXTENDER ANTENNAS			
RE1208P-SM	E	8dBi, 8in Square, 3ft Pigtail with SM Connector	\$29.99
1.9 GHz RANGE EXTENDER ANTENNAS			
RE1903U-SM	C	3dBi, Integral MAG Base, 4ft Cable with SM Connector	\$15.99
RE1903U-SNP	C	3dBi, Integral MAG Base, 4ft Cable with SMA-Nano Connector	\$15.99
RE1905U-SM	A	5dBi, Integral MAG Base, 4ft Cable with SM Connector	\$19.99
RE1905U-SNP	A	5dBi, Integral MAG Base, 4ft Cable with SMA-Nano Connector	\$19.99
2.4 GHz RANGE EXTENDER ANTENNAS			
RE05ER-MC	B	5dBi, 19in Cable with MC Connector	\$4.99
RE05ER-MM	B	5dBi, 19in Cable with MMCX Connector	\$4.99
RE05ET-MM	B	5dBi, Integral MAG Base, 4ft Cable with MMCX Connector	\$24.99
RE05ET-RSP	B	5dBi, Integral MAG Base, 4ft Cable with RP-SMA Connector	\$14.99
RE05U-MM	C	5dBi, Integral MAG Base, 4ft Cable with MMCX Connector	\$8.99
RE05U-RSP	C	5dBi, Integral MAG Base, 4ft Cable with RP-SMA Connector	\$8.99
RE05U-RTP	C	5dBi, Integral MAG Base, 4ft Cable with RP-TNC Connector	\$8.99
RE06P-RSP	E	6dBi, 4in Square, 4ft Cable with RP-SMA Connector	\$26.99
RE06P-RTP	E	6dBi, 4in Square, 4ft Cable with RP-TNC Connector	\$26.99
RE07U-MM	C	7dBi, Integral MAG Base, 4ft Cable with MMCX Connector	\$11.99
RE07U-RSP	C	7dBi, Integral MAG Base, 4ft Cable with RP-SMA Connector	\$11.99
RE07U-RTP	C	7dBi, Integral MAG Base, 4ft Cable with RP-TNC Connector	\$11.99
RE08P-RSP	E	8dBi, 4in Round, 4ft Cable with RP-SMA Connector	\$34.99
RE08P-RTP	E	8dBi, 4in Round, 4ft Cable with RP-TNC Connector	\$34.99
RE09U-RSP	D	8dBi, Integral MAG Base, 4ft Cable with RP-SMA Connector	\$59.99
RE09U-RTP	D	8dBi, Integral MAG Base, 4ft Cable with RP-TNC Connector	\$59.99
RE09P-RSP	E	8dBi, 4in Square, 4ft Cable with RP-SMA Connector	\$29.99
RE09P-RTP	E	8dBi, 4in Square, 4ft Cable with RP-TNC Connector	\$29.99
RE11DP-RSP	E	11dBi, 8in Square, Dual Polarized, 3ft Cables with RP-SMA Connectors	\$27.99
RE11DP-RTP	E	11dBi, 8in Square, Dual Polarized, 3ft Cables with RP-TNC Connectors	\$27.99
RE11DS-RSP	E	11dBi, 8in Square, Dual Spacial, 3ft Cables with RP-SMA Connectors	\$27.99
RE11DS-RTP	E	11dBi, 8in Square, Dual Spacial, 3ft Cables with RP-TNC Connectors	\$27.99
RE14P-RSP	E	14dBi, 8in Square, 3ft Cable with RP-SMA Connector	\$34.99
RE14P-RTP	E	14dBi, 8in Square, 3ft Cable with RP-TNC Connector	\$34.99

NEW!
NEW!

NEW!
NEW!

To Place an Order Call: **877-485-8060**

Get more info at: www.hyperlinktech.com

HK2417-090NF
CODE A

900 MHz, 2.4 GHz, 5.4 GHz and 5.8 GHz Sectorial Omni-Directional Array Antennas

HyperLink's sector antennas are designed for Cell Site installations and include a variety of gain, frequency and radiation patterns. These Wi-Fi antennas feature HyperLink's unique heavy-duty mounting systems that allow installation from level to over 20 degrees down-tilt. In addition, 90, 120 and 180 degree arrays are available supporting a wide range of applications. These antennas feature stainless steel construction for all-weather operation.

- Cell Site applications
- All-weather operation
- 0-20 degree down-tilt
- Multiple array configurations
- RoHS compliant

**Stainless steel
construction
ensures
durability**



Mounting: The array can be mounted directly onto masts 1¼" to 2" (31.7 to 50.8 mm) in dia. using the provided U-Bolts. The mounting bracket can also accept 3" (76.2 mm) U-Bolts (not included) for larger masts.

Single Feed Models (1 Input Feeds All Antennas)

- Sector Antennas
- Signal Splitter w/N-Female Connectors
- 2 ft. 400-Series Jumper Cables - N-Male to N-Male
- Array Mounting System

Individual Feed Models (1 Input for Each Antenna)

- Sector Antennas
- Array Mounting System

SECTORIAL ARRAY ANTENNAS

			Price
NEW!	HK913-120	A 13dBi, Multi-Feed, Incl. (3) 120° ANT with Mounting Array	\$750.00
NEW!	HK913-120NF	A 13dBi, Single-Feed, Incl. (3) 120° ANT with Mounting Array, Splitter, 3 Cables	\$870.00
	HK2414-090	A 14dBi, Multi-Feed, Incl. (4) 90° ANT with Mounting Array	\$550.00
	HK2414-090NF	A 14dBi, Single-Feed, Incl. (4) 90° ANT with Mounting Array, Splitter, 4 Cables	\$650.00
	HK2414-120	A 14dBi, Multi-Feed, Incl. (3) 120° ANT with Mounting Array	\$550.00
	HK2414-120NF	A 14dBi, Single-Feed, Incl. (3) 120° ANT with Mounting Array, Splitter, 3 Cables	\$650.00
	HK2414H-090	A 14dBi, Multi-Feed, Incl. (4) 90° H-Pol ANT with Mounting Array	\$750.00
	HK2414H-090NF	A 14dBi, Single-Feed, Incl. (4) 90° H-Pol ANT with Mounting Array, Splitter, 4 Cables	\$850.00
	HK2415-180	B 15dBi, Multi-Feed, Incl. (2) 180° ANT with Mounting Array	\$1,100.00
	HK2415-180NF	B 15dBi, Single-Feed, Incl. (2) 180° ANT with Mounting Array, Splitter, 2 Cables	\$1,200.00
	HK2417-090	A 17dBi, Multi-Feed, Incl. (4) 90° ANT with Mounting Array	\$810.00
	HK2417-090NF	A 17dBi, Single-Feed, Incl. (4) 90° ANT with Mounting Array, Splitter, 4 Cables	\$960.00
	HK2417-120	A 17dBi, Multi-Feed, Incl. (3) 120° ANT with Mounting Array	\$650.00
	HK2417-120NF	A 17dBi, Single-Feed, Incl. (3) 120° ANT with Mounting Array, Splitter, 3 Cables	\$750.00
	HK2420-090	A 20dBi, Multi-Feed, Incl. (4) 90° ANT with Mounting Array	\$1,750.00
	HK2420-090NF	A 20dBi, Single-Feed, Incl. (4) 90° ANT with Mounting Array, Splitter, 4 Cables	\$1,900.00
	HK2420-120	A 20dBi, Multi-Feed, Incl. (3) 120° ANT with Mounting Array	\$1,250.00
	HK2420-120NF	A 20dBi, Single-Feed, Incl. (3) 120° ANT with Mounting Array, Splitter, 3 Cables	\$1,350.00
	HK5417-090	C 17dBi, Multi-Feed, Incl. (4) 90° ANT with Mounting Array	\$699.99
	HK5417-090NF	C 17dBi, Single-Feed, Incl. (4) 90° ANT with Mounting Array, Splitter, 4 Cables	\$899.99
	HK5817-090	C 17dBi, Multi-Feed, Incl. (4) 90° ANT with Mounting Array	\$699.99
	HK5817-090NF	C 17dBi, Single-Feed, Incl. (4) 90° ANT with Mounting Array, Splitter, 4 Cables	\$899.99

CODE B

CODE C

Professional Grade Antennas

900 MHz, 2.4 GHz, 3.5 GHz, 5.4 GHz, 5.8 GHz and Multi-Band 2.4/5.8 GHz Sectorial Panel Antennas

HyperLink's Sectorial Panel Antennas are available in multiple frequencies, gain and 90 to 180 degrees. They can be used standalone or in circular groups to maximize coverage and feature heavy-duty plastic radome for all-weather operation, with mounting systems that adjust to pinpoint direction. They can be used for wireless Internet Cell Sites and are an ideal choice for wireless Internet.



HG2414DP-090
CODE A

SECTORIAL PANEL ANTENNAS

Item	Code	Description	Price
900 MHz SECTORIAL PANEL ANTENNAS			
NEW! HG913P-120	A	13dBi, 120°, Integral NF Connector	\$249.99
2.4 GHz SECTORIAL PANEL ANTENNAS			
HG2414SP-090	A	14dBi, 90°, Integral NF Connector	\$149.99
HG2414SP-120	A	14dBi, 120°, Integral NF Connector	\$149.99
HG2414HSP-090	A	14dBi, 90°, Horizontal Polarized, Integral NF Connector	\$149.99
NEW! HG2414DP-090	A	14dBi, 90°, Dual Polarized, 2 Integral NF Connectors	\$179.99
HG2415P-180	B	15dBi, 180°, Integral NF Connector	\$479.99
HG2417P-090	A	17dBi, 90°, Integral NF Connector	\$164.99
HG2417P-120	A	17dBi, 120°, Integral NF Connector	\$164.99
HG2420P-090	A	20dBi, 90°, Integral NF Connector	\$164.99
HG2420P-120	A	20dBi, 120°, Integral NF Connector	\$399.95
3.5 GHz SECTORIAL PANEL ANTENNAS			
HG3515P-120	A	15dBi, 120°, Integral NF Connector	\$199.99
4 GHz SECTORIAL PANEL ANTENNAS			
HG5417P-090	C	17dBi, 90°, Integral NF Connector	\$149.99
5.8 GHz SECTORIAL PANEL ANTENNAS			
HG5817P-090	C	17dBi, 90°, Integral NF Connector	\$149.99
2.4/5.8 GHz SECTORIAL PANEL ANTENNAS			
NEW! HG2458-14P-090	A	14dBi, 90°, 2 Integral NF Connectors	\$189.99

Available
from
90 to 180 degrees.
Go online
for details.

Weatherproof Enclosures

Ideal for Every Application

HyperLink's Weatherproof Enclosures are ideal for remote WLAN Wi-Fi equipment installations, indoor and outdoor or hot and cold temperature environments. They are also great for solar powered applications, corrosive environments, sub-zero installations, hotspot applications and protection of equipment from theft or damage. Available with a wide range of options including heat, cooling and Power-over-Ethernet interfaces. In addition to our standard enclosure products, HyperLink can custom manufacture enclosures based on customer requirements for large-scale projects. Visit www.hyperlinktech.com for more details.

NEMA/IEC

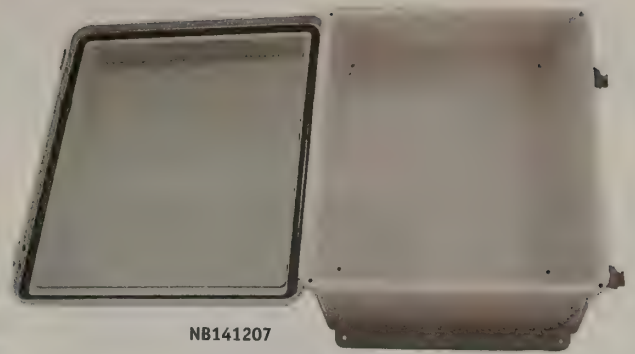
NEMA (National Electrical Manufacturers Association) and the IEC (International Electrotechnical Commission) are two standards groups, which have devised two rating systems for enclosures, which define the enclosures resistance to dust, moisture, water immersion and ice. The IEC's rating is referred to as the IP or Ingress Protection rating. The table below outlines NEMA and IEC IP enclosure ratings

NEMA Enclosure Type No.	NEMA Definition	IEC Enclosure Class
1	General-purpose. Protects against dust, light and indirect splashing but is not dust-tight; primarily prevents contact with live parts; used indoors and under normal atmospheric conditions.	IP10
2	Drip-tight. Similar to Type 1 but with addition of drip shields; used where condensation may be severe (as in cooling rooms and laundries).	IP11
3 and 3S	Weather-resistant. Protects against weather hazards such as rain and sleet; used outdoors on ship docks, in construction work and in tunnels and subways.	IP54
3R	Intended for outdoor use. Provides a degree of protection against falling rain and ice formation. Meets rod entry, rain, external icing and rust-resistance design tests.	IP14
4 and 4X	Watertight (weatherproof). Must exclude at least 65 GPM of water from 1-in. nozzle delivered from a distance not less than 10 ft for 5 min. Used outdoors on ship docks, in dairies and in breweries.	IP56
5	Dust-tight. Provided with gaskets or equivalent to exclude dust; used in steel mills and cement plants.	IP52
6 and 6P	Submersible. Design depends on specified conditions of pressure and time; submersible in water; used in quarries, mines and manholes.	IP67
7	Hazardous. For indoor use in Class I, Groups A, B, C and D environments as defined in the NEC.	—
8	Hazardous. For indoor and outdoor use in locations classified as Class I, Groups A, B, C and D as defined in the NEC.	—
9	Hazardous. For indoor and outdoor use in locations classified as Class II, Groups E, F or G as defined in the NEC.	—
10	MSHA. Meets the requirements of the Mine Safety and Health Administration, 30 CFR Part 18 (1978).	—
11	General-purpose. Protects against the corrosive effects of liquids and gases. Meets drip and corrosion-resistance tests.	—
12 and 12K	General-purpose. Intended for indoor use, provides some protection against dust, falling dirt and dripping noncorrosive liquids. Meets drip, dust and rust resistance tests.	IP52
13	General-purpose. Primarily used to provide protection against dust, spraying of water, oil and noncorrosive coolants. Meets oil exclusion and rust resistance design tests.	IP54

Type/Size	Enclosure	Config Enclosure	Mtg Plate	Drilled Mtg	Fan	State Controller	Enclosure
NON-POWERED ENCLOSURES							
14"x12"x7"							NB141207-KIT
							NB141207
							NB141207-01
							NB141207-00V
18"x16"x8"							NB181608
							NB181608-01
							NB181608-00V
120 VAC ENCLOSURES							
14"x10"x4"							NBP141004-100
							NBP141004-100-4
							NB141207-100
							NB141207-1H0
14"x12"x7"							NB141207-10F
							NB141207-10FS
							NB141207-10FSD
							NB141207-1HFS
							NB141207-1HFS
							NB141207-1HFS
							NB141207-1HFS
							NB141207-1HFS
							NB141207-1HFS
							NB141207-1HFS
18"x16"x8"							NB181608-100
							NB181608-1H0
							NB181608-10F
							NB181608-10FS
							NB181608-10FSD
							NB181608-1HFS
							NB181608-1HFS
							NB181608-1HFS
							NB181608-1HFS
							NB181608-1HFS
240 VAC ENCLOSURES							
14"x12"x7"							NB141207-2H0
							NB141207-20F
							NB141207-2HF
POWER-OVER-ETHERNET ENCLOSURES							
14"x12"x7"							NB141207-400
							NB141207-4H0
							NB141207-40F
							NB141207-40FS
18"x16"x8"							NB181608-400
							NB181608-40F
							NB181608-40FS
							NB181608-40V
12 VDC ENCLOSURES							
14"x12"x7"							NB141207-500
							NB141207-50F
							NB141207-50V
18"x16"x8"							NB181608-500
							NB181608-50F
							NB181608-50V

Non-Powered Weatherproof NEMA Rated Enclosures

Non-powered weatherproof enclosures from HyperLink are great for applications requiring the protection of valuable equipment yet do not require on-board power. Built for the long haul, these enclosures are constructed of molded fiberglass reinforced polyester and are well suited for high temperature or corrosive environments. Some models are available with an integrated mounting plate.



NB141207

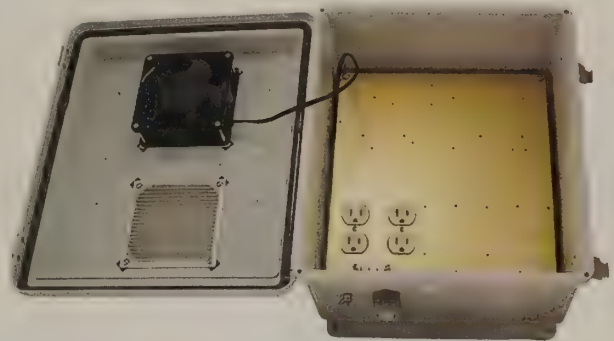
NON-POWERED



Item	Description	Price
NB141207	14x12x7", No Plate	\$64.99
NB141207-KIT	14x12x7", Blank Mounting Plate	\$79.99
NB141207-01	14x12x7", Mounting Plate	\$129.99
NB181608	18x16x8", No Plate	\$149.99
NB181608-KIT	18x16x8", Blank Mounting Plate	\$172.99
NB181608-01	18x16x8", Mounting Plate	\$199.99
120 VAC ENCLOSURES		
NB141207-00V	14x12x7", Mounting Plate, Vent	\$159.99
NB181608-00V	18x16x8", Mounting Plate, Vent	\$249.99

120 VAC Weatherproof NEMA Rated Enclosures

HyperLink's 120 VAC powered NEMA enclosures are available with many options including integrated mounting plates, heaters and fans. These enclosures can be used in Wi-Fi hotspots, harsh environments requiring cooling or heating and in virtually any other application where communications equipment is vulnerable to theft or the elements. See individual listings below for options.



NB141207-10F

120 VAC



Item	Description	Price
NB141207-10V	14x12x7", Mounting Plate, Vent	\$189.99
NB141207-10F	14x12x7", Mounting Plate, Fan	\$199.99
NB141207-10FS	14x12x7", Mounting Plate, Solid State Controlled Fan	\$234.99
NB141207-1HF	14x12x7", Mounting Plate, Heater/Fan	\$249.99
NB141207-1HFS	14x12x7", Mounting Plate, Solid State Controlled Heater/Fan	\$299.99
NB141207-10FSD	14x12x7", Mounting Plate, Solid State Controlled Dual Fans	\$279.99
NB181608-10V	18x16x8", Mounting Plate, Vent	\$369.99
NB181608-10F	18x16x8", Mounting Plate, Fan	\$379.99
NB181608-10FS	18x16x8", Mounting Plate, Solid State Controlled Fan	\$414.99
NB181608-1HF	18x16x8", Mounting Plate, Heater/Fan	\$449.99
NB181608-1HFS	18x16x8", Mounting Plate, Solid State Controlled Heater/Fan	\$499.99
NB181608-10FSD	18x16x8", Mounting Plate, Solid State Controlled Dual Fans	\$419.99
NB141207-00V	14x12x7", Mounting Plate, Vent	\$159.99
NB181608-00V	18x16x8", Mounting Plate, Vent	\$249.99
NB141207-00V	14x12x7", Mounting Plate, Vent	\$159.99
NB181608-00V	18x16x8", Mounting Plate, Vent	\$249.99
120 VAC ENCLOSURES		
NB141207-100	14x12x7", Mounting Plate	\$179.99
NB141207-1H0	14x12x7", Mounting Plate, Heater	\$199.99
NB181608-100	18x16x8", Mounting Plate	\$269.99
NB181608-1H0	18x16x8", Mounting Plate, Heater	\$349.99

- 120 VAC power
- Fan and heating options
- All weather operation
- Fully customized configurations available
- Three sizes to choose from

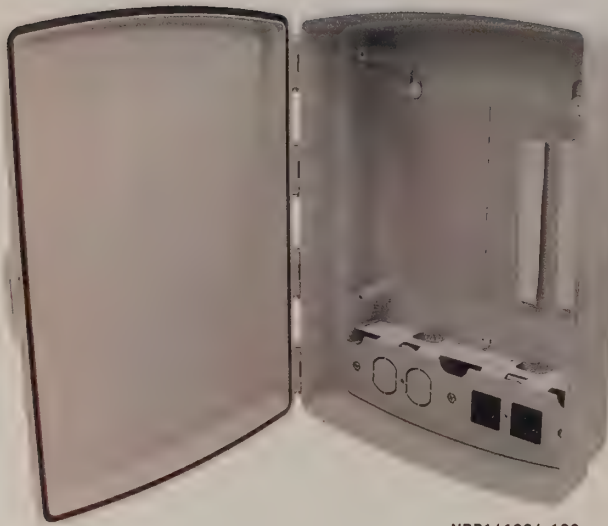


For a complete listing of HyperLink enclosures visit www.hyperlinktech.com

120 VAC NEMA Rated ABS Plastic Enclosures

These lightweight yet rugged ABS Plastic equipment enclosures provide protection for all your wired and wireless communications equipment. Each unit features a removable 120 VAC power module with two populated AC outlets. Punch outs are provided for adding another dual AC outlet module if required.

- *Compact size*
- *Weatherproof ABS construction*
- *Easy to install*
- *Fully gasketed lockable lid*
- *3 rubber cable glands*
- *Removable 120 VAC power module*



NBP141004-100

NBP141004-100	14x10x4", No Plate	\$44.99
NBP141004-100-4	14x10x4", No Plate, 4-Pack	\$154.99

Weatherproof Enclosures with Solid State Cooling/Heater Controllers

HyperLink now has available an extensive line of low-cost solid-state temperature controllers for our weatherproof enclosures. These are available for both AC and DC powered NEMA enclosures. The controllers offer improved reliability and temperature setpoint accuracy versus mechanical thermostats. These temperature controllers are available in our 14x12x7 inch and 18x16x8 inch enclosure models.

NEW! 240 VAC Weatherproof NEMA Rated Enclosures

HyperLink's NEMA rated 240 VAC weatherproof enclosures include a mounting plate, and are available with a thermostat controlled cooling fan and/or heater. These robust enclosures are well suited for indoor and outdoor applications where 240 VAC power is used such as international locations.

- *Stainless steel quick release latches with padlock hasps*
- *Fully gasketed raised lid and integral mounting flange*
- *Includes versatile mounting plate*
- *Supports 240 VAC power*
- *RoHS compliant*



NB141207-20F

NB141207-20F	14x12x7", Mounting Plate, Fan	\$239.99
NB141207-2HF	14x12x7", Mounting Plate, Heater/Fan	\$279.99
NB181608-20F	18x16x8", Mounting Plate, Fan	\$399.99
NB181608-2HF	18x16x8", Mounting Plate, Heater/Fan	\$449.99
NB141207-2H0	14x12x7", Mounting Plate, Heater	\$239.99
NB181608-2H0	18x16x8", Mounting Plate, Heater	\$399.99

Weatherproof NEMA Rated Enclosures with PoE Interface

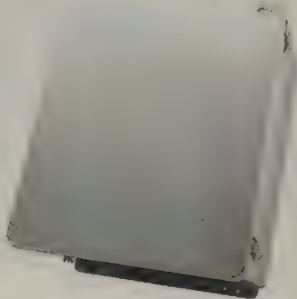
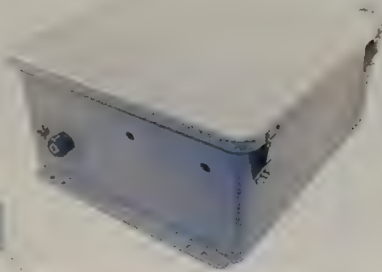
HyperLink offers both NEMA 3R and 4X rated weatherproof enclosures with integrated PoE interfaces. These enclosures are perfect for use with wireless radios and other communications equipment which support PoE applications. All enclosures feature mounting plates designed to work with a multitude of WLAN equipment. Sturdy molded fiberglass reinforced polyester construction provides years of use.

- *NEMA 3R and 4X options*
- *Indoor and outdoor use*
- *Integrated PoE interface*
- *Versatile aluminum mounting plate*
- *RoHS compliant*

Protect valuable communication equipment



NB141207-400



PoE		
Item	Description	Price
NB141207-40V	14x12x7", Mounting Plate, Vent	\$169.99
NB141207-40F	14x12x7", Mounting Plate, Fan	\$199.99
NEW! NB141207-40FS	14x12x7", Mounting Plate, Solid State Controlled Fan	\$249.99
NB181608-40V	18x16x8", Mounting Plate, Vent	\$349.99
NB181608-40F	18x16x8", Mounting Plate, Fan	\$399.99
NEW! NB181608-40FS	18x16x8", Mounting Plate, Solid State Controlled Fan	\$449.99
ENCLOSURE ACCESSORIES		
NB141207-400	14x12x7", Mounting Plate	\$159.99
NB181608-400	18x16x8", Mounting Plate	\$299.99



12 VDC Weatherproof NEMA Rated Enclosures

These NEMA 3R and 4X rated enclosures feature 12 VDC power and aluminum mounting plates. Uses for this series of enclosures include 12 VDC solar powered applications, 12 VDC battery back-up applications, corrosive environments and 12 VDC vehicle applications. Some models are available with cooling fan for high temperature applications.

12 VDC		
Item	Description	Price
NB141207-50V	14x12x7", Mounting Plate, Vent	\$169.99
NB141207-50F	14x12x7", Mounting Plate, Fan	\$199.99
NB181608-50V	18x16x8", Mounting Plate, Vent	\$349.99
NB181608-50F	18x16x8", Mounting Plate, Fan	\$399.99
ENCLOSURE ACCESSORIES		
NB141207-500	14x12x7", Mounting Plate	\$149.99
NB181608-500	18x16x8", Mounting Plate	\$299.99
ENCLOSURE ACCESSORIES		
HGX-NPLATE01	Blank Mounting Plate for NB141207 Enclosure	\$22.99
HGX-NPLATE04	Blank Mounting Plate for NB181608 Enclosure	\$32.99
HGX-PMT13	Pole Mount Kit, 2" (50.8mm) to 4" (101.6mm) Dia. Poles	\$39.99
HGX-NMOUNT03	Universal Equipment Shelf	\$16.99
HGX-NMOUNT04	Dual Cisco 1200AP Mounting Bracket	\$27.99
NEW! NBA-0001	Black H-Cut Hole Plug, 10-Pack	\$6.99



Universal Pole Mounting Kit: This kit is used to mount NB141207 or NB181608 series weatherproof enclosures from 2" (50.8mm) to 4" (101.6mm) dia. poles. For larger diameter poles, slots are provided in the rails for 1/2" (12.7mm) wide worm drive clamps. For poles 1-1/4" (31.7mm) to 2" (50.8mm) dia. the HGX-PMT07 (2 required) can be used with this kit. See Page 32 for more information.

Amplifiers



HA2401GXI-1000

Upgrade Your Operating Range and Performance

HyperAmp® Indoor and Outdoor Wi-Fi Amplifiers

HyperAmp® is the leader in bi-directional Wi-Fi RF amplifiers for wireless LAN. Consisting of a low-noise receive amplifier and a transmit power amplifier, HyperAmp offers significant improvement in operating range and performance. HyperAmp is compatible with spread spectrum wireless gear including IEEE 802.11a/b/g.

Amplifier products are available for export, military, licensed amateur radio (ham radio) and OEM component sales only and as part of complete FCC Certified Systems. Individual amplifier products are not offered for sale in the USA.

- 100 mW to 25 Watt Amp models available
- 2.4 GHz, 4.9 GHz, 5.8 GHz and 900 MHz support
- Automatic gain control and fixed-gain models available
- Indoor and outdoor industrial grade versions
- Low profile "Design-In" Modules available
- Custom configurations available

"One of the things about hyperlinktech.com that caught my eye was the historical view of my orders. I also liked the fact that you had installation manuals readily available. All in all, I thought your website was easy to use. You certainly have a much more professional site than many of the folks selling similar items. The checkout process was professional and worked as expected. I can't say much more. It just worked."

*— Rhett Gibson
HDI Solutions*

DON'T FORGET YOUR FREE GIFT!

Order as little as \$200 and receive the exclusive new HyperLink tool kit. Use these 10 handy tools in a rugged, water resistant nylon carrying case at home or at work. Small enough to fit in tight areas but strong enough to get the job done.

Or, order \$350 and receive the new HyperLink USB 2.0 flash drive. Save up to 128MB of files ranging from Word documents to image files to multimedia. Easy to use plug and play drive.

ORDER TODAY!

Mention this offer when you call or order online. Limit one per customer, while supplies last. HyperLink reserves the right to substitute gifts.

Please note that additional documentation may be required to purchase a HyperLink amplifier. In those cases a HyperLink sales associate will contact you to complete your order.

Active Power Control Technology Ensures Maximum Power Output

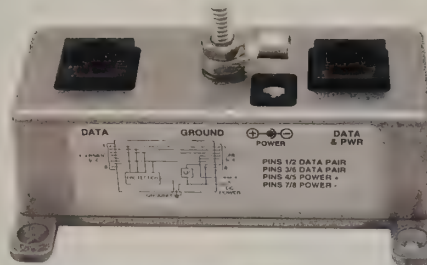
HyperAmp® 2.4 GHz 802.11b and 802.11b/g Compatible Bi-Directional Wi-Fi Amplifiers

HyperLink's HyperAmp® 2.4 GHz Wi-Fi amplifier are available from 100 mW to 25 Watts and feature HyperLink's active power control which monitors the amplifier's output power and automatically adjusts to provide maximum output power regardless of cable length.

- Indoor and outdoor models available
- Active power control
- IEEE 802.11b/g compatible
- Cast aluminum construction
- Transmit and receive LEDs

Kit includes amplifier, PoE injector and power supply

HA2401GXE-KIT02



Power Supply

HA2401G-100	100 mW 802.11b/g, Includes Power Supply/DC Injector	\$159.99
HA2401G-250	250 mW 802.11b/g, Includes Power Supply/DC Injector	\$179.99
HA2401G-500	500 mW 802.11b/g, Includes Power Supply/DC Injector	\$199.99
HA2401G-1000	1 W 802.11b, Includes Power Supply/DC Injector	\$179.99
HA2401GX-1000	1 W 802.11b/g, Includes Power Supply/DC Injector	\$249.99
HA2402GX-NF	2 W 802.11b/g, Includes Power Supply/DC Injector	\$349.99
HA2401-XL3000	3 W 802.11b, Includes Power Supply/DC Injector	\$349.99
HA2403GT-NF	3 W 802.11b/g, Includes Power Supply/DC Injector	\$999.99
HA2404GT-NF	4 W 802.11b/g, Includes Power Supply/DC Injector	\$1099.99
HA2405GT-NF	5 W 802.11b/g, Includes Power Supply/DC Injector	\$1199.99
HA2406T-NF	6 W 802.11b, Includes Power Supply/DC Injector	\$999.99
HA2408T-NF	8 W 802.11b, Includes Power Supply/DC Injector	\$1299.99
HA2408GT-KIT	8 W 802.11b/g, Includes Power Supply/DC Injector/NEMA Enclosure	\$2499.99
HA2410GT-KIT	10 W 802.11b/g, Includes Power Supply/DC Injector/NEMA Enclosure	\$2699.99
HA2420T-KIT	20 W 802.11b, Includes Power Supply/DC Injector/NEMA Enclosure	\$2899.99
HA2425T-KIT	25 W 802.11b, Includes Power Supply/DC Injector/NEMA Enclosure	\$3399.99

HA2401GI-100	100 mW 802.11b/g, Includes Power Supply	\$149.99
HA2401GI-250	250 mW 802.11b/g, Includes Power Supply	\$169.99
HA2401GI-500	500 mW 802.11b/g, Includes Power Supply	\$189.99
HA2401GI-1000	1 W 802.11b, Includes Power Supply	\$169.99
HA2401GXI-1000	1 W 802.11b/g, Includes Power Supply	\$229.99
HA2401MG-1000	1 W 802.11b Compact, Includes Power Supply	\$149.99
HA2402GXI-NF	2 W 802.11b/g, Includes Power Supply	\$329.99
HA2401DX-XL3000	3 W 802.11b, Includes Power Supply	\$299.99
HA2403GTI-NF	3 W 802.11b/g, Includes Power Supply	\$899.99
HA2404GTI-NF	4 W 802.11b/g, Includes Power Supply	\$999.99
HA2405GTI-NF	5 W 802.11b/g, Includes Power Supply	\$1099.99
HA2406TI-NF	6 W 802.11b, Includes Power Supply	\$899.99
HA2408TI-NF	8 W 802.11b, Includes Power Supply	\$1199.99
HA2408GTI-NF	8 W 802.11b/g, Includes Power Supply	\$1999.99
HA2410GTI-NF	10 W 802.11b/g, Includes Power Supply	\$2199.99
HA2420TI-NF	20 W 802.11b, Includes Power Supply	\$2399.99
HA2425TI-NF	25 W 802.11b, Includes Power Supply	\$2899.99

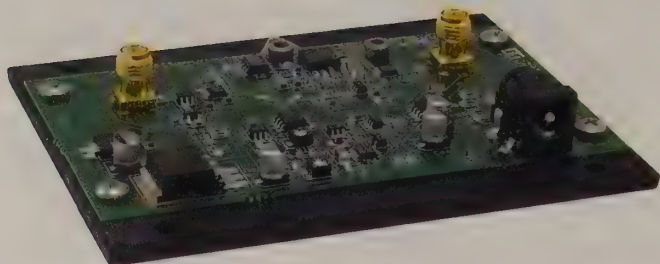
NEW! HA2401GE-250	250 mW 802.11b/g PoE Amplifier	\$219.99
NEW! HA2401GE-500	500 mW 802.11b/g PoE Amplifier	\$239.99
HA2401GXE-1000	1 W 802.11b/g PoE Amplifier	\$279.99
HA2401GXE-KIT02	1 W 802.11b/g, Includes Power Supply/PoE Injector	\$299.99
HA2401GXE-2000	2 W 802.11b/g PoE Amplifier	\$379.99
NEW! HA2401GXE-3000	3 W 802.11b PoE Amplifier	\$349.99

More amplifier info at:
www.hyperlinktech.com

Tech Talk:

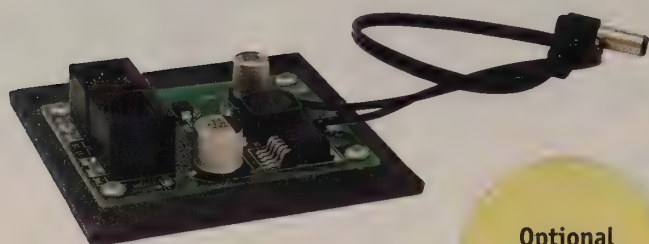
The **key** requirements of Bi-Directional Amplifiers for use with the new high data rate 802.11a/g/n radios is Automatic Power Control (APC), fast switching speed and good linearity. A 802.11a/g/n radio is very sensitive to signal distortion. Older amplifiers designed for use with 802.11b radios will not function properly with the newer radios. In 2002, HyperLink was the **first company** to offer a 802.11g Bi-Directional Amplifier with APC. The use of a competitor's fixed gain amplifier with the new rate 802.11a/g/n radios is guaranteed to degrade radio or range performance. HyperLink's APC will hold transmit power constant regardless of data rate. Learn more at hyperlinktech.com.

NEW! HyperAmp® 2.4 GHz 802.11b and 802.11b/g Wi-Fi Amplifier Modules



HyperLink's HA2401GM series is designed for integration into products such as Access Points and other Wi-Fi equipment. The HA2401GM features the same performance as our full sized amplifiers but in a compact "OEM" module. A PoE Regulator Module is also available for applications requiring Power-over-Ethernet.

- OEM design - ideal for product integration
- Low profile SMA connectors
- Transmit and receive LEDs
- Aluminum mounting plate



Optional
PoE Regulator
Module

Model	Description	Price
HA2401GM-100	100 mW 802.11b/g OEM Module	\$99.99
HA2401GM-250	250 mW 802.11b/g OEM Module	\$99.99
HA2401GM-500	500 mW 802.11b/g OEM Module	\$99.99
HA2401GM-1000	1 W 802.11b OEM Module	\$99.99
BT-CAT5-M1	PoE Regulator Module with Surge Protection	\$43.99

NEW! HyperAmp® 2.4 GHz 802.11b and 802.11b/g Wi-Fi OEM Amplifiers



HyperLink's HA2401SFG series of amplifiers feature low profile SMA Female connectors. This helps reduce the overall height of the amplifier, making it ideal for installations with limited space. Amplifier modules feature cast aluminum construction and are available with or without built-in PoE interface.

- Low profile SMA connectors
- Active power control
- Cast aluminum construction
- Power supply not included with PoE models

More amplifier info at:
www.hyperlinktech.com

Model	Description	Price
HA2401SFGI-100	100 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	\$149.99
HA2401SFGI-250	250 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	\$169.99
HA2401SFGI-500	500 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	\$189.99
HA2401SFGI-1000	1 W 802.11b, SMA Female Connectors, Includes Power Supply	\$189.99
HA2401SFGI-100	100 mW 802.11b/g, SMA Female Connectors	\$199.99
HA2401SFGI-250	250 mW 802.11b/g, SMA Female Connectors	\$219.99
HA2401SFGI-500	500 mW 802.11b/g, SMA Female Connectors	\$239.99
HA2401SFGI-1000	1 W 802.11b, SMA Female Connectors	\$239.99

Ordered By:

Name _____

Title _____

Company _____

Address _____

City _____ State _____ Zip _____

Ship To:

Name _____

Title _____

Company _____

Address _____

City _____ State _____ Zip _____

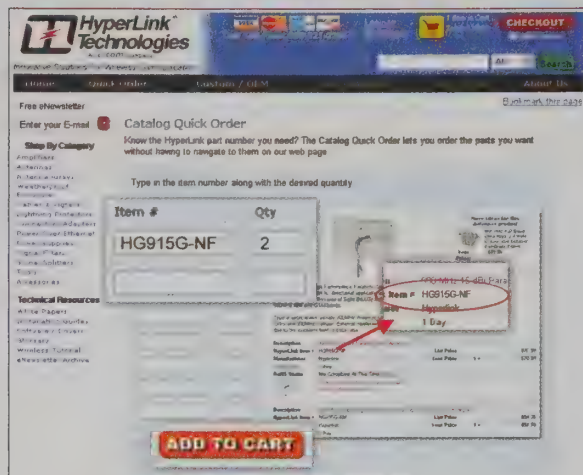
Include your phone numbers and e-mail address in case we have questions concerning your order:

() ()

Work Phone _____ Home Phone _____

E-mail Address _____

Easy and fast ordering from any
HyperLink catalog or HyperLinkTech.com

Catalog Quick Order


The screenshot shows the HyperLink Technologies website interface for a 'Catalog Quick Order'. It includes a search bar, a 'CHECKOUT' button, and a list of items. One item, 'HG915G-NF', is highlighted with a red circle and a red arrow pointing to the 'ADD TO CART' button. The interface also shows a 'Free Newsletter' sign-up and a 'Shop By Category' section.





It's easy to order catalog items online. Just type in an item number, along with the desired quantity, and click "Add To Cart".

HyperLinkTech.com/QuickOrder

Item #	Description	Page	Qty.	Price Each	Total

Method of Payment: (Domestic C.O.D. ground only)
☐ I have an account with HyperLink.

My number is: _____

☐  ☐  ☐  ☐ 

Card Number _____ Exp. Date _____

Name on Card _____

Signature _____

Shipping Methods

- ☐ Next Day Air Next Business Day by 10:30
☐ Second Day Air Two Business Days
☐ Ground 3-5 Business Days, Continental US
☐ Only Other Shipping Method: _____

ALL ORDERS SHIP F.O.B. BOCA RATON, FLORIDA

Shipping and Processing

All orders are shipped FOB our plant in Boca Raton, FL.
The **MINIMUM** shipping and processing charges are as follows:

Domestic ground shipments:	\$9.50
Domestic ground C.O.D. (under \$100):	\$16.50
Canadian ground shipments:	\$16.50
Outside the USA and Canada:	\$20.00

Exact shipping charges will be added to your invoice.

Sub-Total

TOTAL

**Thank you for
your order!**



Applicability of Terms and Conditions

The Terms and Conditions on this page will govern all sales by L-com, Inc. and HyperLink Technologies, Inc. ("us", "we") unless otherwise agreed to in writing, signed by L-com at its home office in North Andover, Massachusetts, by an authorized agent. Terms and Conditions contained in Buyer's purchase order or any other document that are different from or in addition to these Terms and Conditions are objected to, are rejected, and will not be binding on us. Buyer will be deemed to have agreed to these Terms and Conditions by issuing a purchase order number and upon receipt from us of a written acknowledgement of Buyer's placement of an order. Notwithstanding the foregoing, if we at Buyer's request, commence performance in any way prior to receipt by Buyer of our written acknowledgement, Buyer's acceptance of these Terms and Conditions will be deemed to have occurred on the date such performance commences. If for any reason, our Quotation is deemed an acceptance of an offer made by Buyer, such acceptance is expressly conditioned on Buyer's assent to these Terms and Conditions, which assent will be evidenced by the earlier of Buyer's acceptance of items delivered by us or any other performance by Buyer or by us. We will proceed to sell items only if Buyer assents to these Terms and Conditions.

Application Disclaimer

Products sold by us are not intended for use in life support or other medical devices or systems, life-critical applications, emergency response or safety related systems, or in connection with any product using nuclear power, or in the aircraft, aviation, aeronautical, aerospace, defense or related industries or for uses or in industries not otherwise provided in the product description. Any such use of products sold by us is at Customer's sole risk, and Customer agrees to indemnify and hold us harmless from and against any loss, claims, damages, liability, or cost (including court costs and attorney's fees) resulting from such use or sale by our Customer or any customer of our Customer. Due to the numerous factors affecting the operating range of radio frequency systems we specifically do not guarantee operating range. Customers are urged to contact a local Professional Installer for assistance in designing and installing any Products. We do not provide installation services or design services. Therefore any assistance or advice provided by one of our employees or representatives in selecting equipment is given on a best-effort basis, and should not be relied upon for final decision of product selection by Customer.

Call Monitoring

As a part of a commitment to continuous improvement, we utilize systems to monitor incoming and outgoing telephone calls with customers to ensure quality of service.

Confidentiality

Buyer agrees that all information furnished by or obtained from us in connection with the sale of items hereunder will be confidential, and Buyer agrees not to (i) disclose any such information to any other person, or (ii) use such information for any purpose, other than performing this contract.

FCC PART 15 AND PART 97 NOTICE

For systems operating within the jurisdiction of the FCC, customer acknowledges that any amplification device it purchases is intended for use only in a transmission system certified under Part 15, Part 97 or other applicable section of the rules and regulations of the Federal Communications Commission.

International Orders

International orders may be subject to any applicable customs duties, VAT, and taxes in the country of destination, all of which are the responsibility of the customer. If this transaction involves an export under Export Administration Regulations, the products exported by us are exported in accordance with the current Export Administration Regulations. Diversion, use, export or re-export contrary to United States law is prohibited. The commodities, technology and/or software sold or distributed under these terms and conditions of sale may not be exported or re-exported to Cuba, Iran, Libya, Sudan, North Korea or Syria or to other countries, entities and persons that are ineligible under United States law to receive United States commodities, technology and/or software.

Jurisdiction and Venue

Customer agrees that any legal action brought against us shall be governed by the laws of the State of Massachusetts or State of Florida (respectively) without regard to its conflict of law principles. Customer agrees that the sole jurisdiction and venue for any litigation arising from any purchase shall be an appropriate federal or state court of competent jurisdiction located in Essex County, Massachusetts or Palm Beach County, Florida.

Limitation of Liability

In no event shall we, our Directors, Officers, Employees and Representatives be liable for indirect, special, incidental, consequential, punitive or other damages including but not limited to loss of use, loss of data, loss of business income or profits or breach of implied warranties of any kind arising out of the purchase, use or performance of the Products, whether or not it has been advised of the possibility of such damages. Some localities do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Remedies and Limitations on Remedies

In the event of any material breach of the warranty, we will, at our sole option, credit Buyer's account or repair any defective goods or furnish a replacement part or goods, all subject to Buyer providing written notice of the alleged breach within the time required. The remedies set forth herein shall be the sole and exclusive remedies available to buyer so that our credit to Buyer's account or repair or replacement is a fulfillment of all our obligations. We shall not be liable for any special, consequential, incidental or punitive damages of any kind, nor under any circumstance shall we be liable for damages beyond the price of the goods purchased by Buyer, whether in contract, in tort or under any warranty or other use.

Notices

Any notice to us required or permitted hereunder will be deemed to have been effectively delivered if in writing and served by personal delivery to us or sent by registered or certified mail with return receipt requested, postage prepaid, to us at the address specified.

Order Acceptance

Your receipt of an email or other form of order confirmation does not constitute our acceptance of your order or a confirmation of an offer to sell. We reserve the right, without prior notification, to limit the order quantity on any item and/or refuse service to any customer. All orders are subject to review and acceptance by us. Verification of information may be required prior to the acceptance of any order.

Pricing and Specifications

All prices and specifications are subject to change without notice. We reserve the right to change pricing, products and specifications, or discontinue items at our sole discretion for any reason whatsoever including, but not limited to changing market conditions, product discontinuation, component unavailability, manufacturing cost changes and errors in advertisements.

Returns

Customers wishing to return products must first obtain a Return Material Authorization (RMA) number from a Customer Service representative. This number must be printed on the outside of the package in order for it to be received and processed. Merchandise must be shipped prepaid. We will determine if credit will be issued upon evaluation of the product and packaging after it's returned to us. Other details concerning returns are as follows:

Stock Item Returns

Items ordered in error must have a Return Material Authorization (RMA) number issued within 30 days of the original order. These parts are eligible for full credit only if the returned products and packaging are in mint and salable condition. A repackaging/restocking charge not to exceed 25% of the sale price may be charged on any products not returned unopened. Under no circumstances will credit be issued after 30 days from date of invoice or for orders exceeding \$500.00 in total value. All freight charges are the responsibility of the customer.

Custom Product and Tool Returns

Custom Products and tools are not returnable for any reason unless they are found to be defective.

Defective Item Returns

Defective items must have a Return Material Authorization (RMA) number called in prior to shipping.

Distributed Item Returns: Products distributed by HyperLink carry the warranty of the respective manufacturer only. After 30 days from invoice all merchandise returns for distributed products must be handled directly with that manufacturer in accordance with their warranty.

Sales Taxes

Any L-com orders shipped to or picked up in Massachusetts must have 5% sales tax added or provide an "Exempt Use Certificate" when establishing their account. HyperLink adds Sales Tax only to orders that are shipped to addresses in Florida. Customer shall be solely responsible for all sales taxes, or other taxes, on orders shipped to any other state. Resale shipments inside the State of Florida will be charged Sales Tax unless a valid Resale Certificate or Exemption is on file with HyperLink AT THE TIME OF PURCHASE. No credit will be given for sales tax paid on purchases made prior to such exemption being on file with HyperLink. Sales tax is charged on the products as well as on the shipping and handling amount.

Shipping and Processing

All orders are shipped FOB our plant in North Andover, MA or our plant in Boca Raton, FL, respectively. The minimum shipping and processing charge for domestic ground shipments is \$9.50.

Shortages

Claims for shortages must be reported within 5 business days of receiving the order, otherwise these orders will be deemed as complete.

Tolerances and Variations

Except in the particulars specified by Buyer and agreed to in writing by us, the goods being sold to Buyer will be produced in accordance with our standard practices. All goods, however, including those produced to meet an exact specification, will be subject to tolerance and variations consistent with good manufacturing practices in regard to dimension, weight, section, composition, mechanical and electrical properties, to normal variations in surface and internal conditions and in quality; and to deviations from tolerances and variations consistent with practical testing and inspection methods.

Warranty

We warrant our manufactured products and assemblies for a period of one year from time of purchase. These products are warranted against defects in workmanship or materials under normal use. We cannot warranty our products in case of misuse, acts of God, or consequential damage. Alteration of product cancels all warranties. Under no circumstances will we be responsible for any damage beyond the replacement cost of the defective merchandise. We reserve the right to repair or replace any products that are returned under warranty. Products distributed by us carry the warranty of the respective manufacturer only. Goods manufactured by us to meet Buyer's instructions, specifications or requirements are subject to a plus or minus deviation of five percent (5%) in quantity. This warranty applies to the original purchaser only and is not transferable. This limited warranty covers normal use. The limited warranty does not cover damage incurred during shipment, caused by impact with other objects, dropping, immersion in liquid; service by anyone other than us, use not in accordance with instructions, accident, abuse, misuse, natural disasters such as flood, fire, earthquake or lightning, power surges and problems caused by use of power supplies not supplied by us. Warranty coverage will not apply in the event the serial number or brand-name has been removed, altered or defaced. EXCEPT AND TO THE EXTENT EXPRESSLY SET FORTH ABOVE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND WE EXPRESSLY DISCLAIM ALL WARRANTIES NOT STATED HEREIN. Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Privacy Policy

We collect the mail address, e-mail address, and phone information of those who communicate with us via written correspondence, e-mail, phone calls, and information volunteered by the customer such as survey information and/or site registration. The information that you give us and information about your order may be combined with other personally identifiable information (such as demographic information and past purchase history) available from our records and other sources. This information will be used to make our future marketing efforts more efficient. This information may also be shared with other marketers to bring you offers of interest. If you prefer that we do not share your name and address with other marketers, please e-mail us at update@L-com.com or write us at the address below. L-com, Inc. Attn: Mailroom Manager 45 Beechwood Drive North Andover, MA 01845.

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Wireless Primer

Wireless communication involves the transport of voice, video and data using Radio Frequency (RF) or Microwaves.

Radio Frequency is defined as a rate of oscillation or frequency within a range of approximately 3kHz to 300 GHz. Typical Radio Frequency applications include AM broadcasting, navigational beacons, wireless networks, and shortwave radio.

Microwaves range from approximately between 300MHz and 300GHz and are typically used for broadcast television, FM broadcasting, aviation communications, radar and satellite links.

Today's business and some Government networks typically utilize the 2.4GHz-5.8GHz RF range which encompasses one or several of the IEEE 802.11a, b and g, n wireless standards. Other popular RF frequencies used today include 900MHz for ISM (Industrial, Scientific and Medical) RFID (Radio Frequency Identification) and 1.9GHz for PCS (Personal Communication Service) applications.

Frequency Chart

Name	Symbol	Range	Wavelength
Extremely low frequency	ELF	3 to 30 Hz	10,000 km to 100,000 km
Super low frequency	SLF	30 to 300 Hz	1,000 km to 10,000 km
Ultra low frequency	ULF	300 Hz to 3 kHz	100 to 1000 km
Very low frequency	VLF	3 to 30 kHz	10 to 100 km
Low frequency	LF or LW	30 to 300 kHz	1 to 10 km
Medium frequency	MF or MW	300 to 3000 kHz	100 m to 1 km
High frequency	HF or SW	3 to 30 MHz	10 to 100 m
Very high frequency	VHF	30 to 300 MHz	1 to 10 m
Ultra high frequency	UHF	300 to 3000 MHz	10 to 100 cm
Super high frequency	SHF	3 to 30 GHz	1 to 10 cm
Extremely high frequency	EHF	30 to 300 GHz	1 to 10 mm

Complete
Wireless
Solutions

Indoor (in building) RF Wireless Networks

When dealing with the installation and expansion of indoor wireless networks several factors must be considered. Most manufacturers of wireless access points and routers indicate a typical range that their equipment can provide. Usually these range estimates require line of sight which means you will need a clear unobstructed view of the antenna from the remote point in the link. In most cases there will be obstacles present in an indoor installation that could affect performance. Signals generally will not penetrate metal or concrete walls. Other factors that will reduce range and affect coverage area include metal studs in walls, concrete fiberboard walls, aluminum siding, foil-backed insulation in the walls or under the siding, pipes and electrical wiring, furniture and sources of interference. Other sources include other wireless equipment, cordless phones, microwave ovens, radio transmitters and other electrical equipment. Due to the increased gain, installing range extender antennas in the presence of interference could actually yield equal or worse range.

In wireless transmissions, reflections (when wireless signals "bounce" off objects) and multipath (when wireless signals travel in multiple paths arriving at the receiver at different times) are as important as signal strength in determining the success of an installation. A signal will also exhibit peaks and nulls in its amplitude and alteration of its polarization (vertical or horizontal) when propagating through walls, ceilings and reflecting off metallic objects.

Wireless radios have special hardware and software to deal with multipath and signal level nulls, but if the antenna is in a poor location, the radio will not be able to communicate. When trying to get the best performance in a location with a lot of barriers or reflections, it is important to be able to move the antenna in all three axes in order to minimize the effects of multipath and optimize the signal strength.

Outdoor RF Wireless Networks

Outdoor RF wireless network experience the same factors such as reflections and multipath as Indoor networks. For outdoor wireless installations clear line of sight is optimal. Trees and leaves are obstructions to 802.11 frequencies so they will partially or entirely block the signal if not cleared.

Before deploying any wireless network a site survey is recommended. The site survey typically entails installing an access point at each location where user groups are located and then monitoring the wireless signal strength by walking varying distances away from the access points using a laptop with site survey software. The result will show you where you may need more access points to provide sufficient coverage or where you may need to move an access point for optimal wireless connectivity.

Antenna: That part of a radio communications system intended to radiate and/or collect radio frequency energy.

Antenna Gain: A relative measure of an antenna's ability to direct or concentrate radio frequency energy in a particular direction or pattern. Typically measured in dBi or dBd.

Attenuation: The loss or weakening of a signal through a transmission line, transmission component or signal path. Usually refers to loss in signal amplitude or signal power, and is typically measured in decibels (dB).

Attenuator: A component that reduces the magnitude of current, voltage, or power of a signal in transmission between points. The input and output impedance of the Attenuator normally matches the system.

Band Pass Filter: A signal filter designed to pass a continuous range of frequencies, while attenuating frequencies that are both above and below that range. Also called a BPF.

Bandwidth: The term Bandwidth must be used in the proper context. The Bandwidth of a Filter is the difference between the highest and lowest frequencies of a band expressed in Hertz. The Bandwidth of a system or channel is the volume of information per unit of time that a transmission medium can handle.

Bias-T: A Bias-T is a type of Diplexer that is installed in-line with a transmission cable enabling both DC power and RF signals to travel through the same cable. The Bias-T is normally used to power remote equipment.

Bi-Directional Amplifier: A device that amplifies an RF signal in both Forward (Transmit) and Reverse (Receive) directions. Also called a Bilateral Amplifier. Two basic modes of operation exist, Half Duplex or Full Duplex. The Forward and Reverse frequencies of operation can be the same or different.

Bridge: Typically used to describe a component of a communications network that connects one network to another. For example a Wireless, Wired or Fiber Bridge can be used to connect two networks together.

Bulkhead Connector: A connector type that is designed for mounting through a panel or wall.

Cavity Filter: A popular type of RF filter that employs one or more resonant cavities to filter out unwanted frequencies.

Coaxial Cable, Coax: A concentric two-conductor cable in which one conductor surrounds the other, separated by an insulator or dielectric.

Compression: In RF amplification, an amplifier is said to be "in compression" (distorting) when the output is no longer a linear representation of the input signal, typically at the operational limits of the amplifier.

CW: Continuous wave. An analog signal that is always "on" (100% duty cycle).

dBd: Decibels relative to a dipole. (See also Decibel and Dipole)

dBi: Decibels relative to an isotrope. (See also Decibel and Isotrope)

dBm: Decibels (dBi) relative to one milliwatt. (See also Decibel)

dBW: Decibels (dBi) relative to one Watt. (See also Decibel)

Decibel (dB): A logarithmic representation of magnitude relationships commonly used in radio and sound measurement. A Decibel is 1/10 of a Bel.

Diplexer: A device that combines two signals onto a single transmission line. In general the two signals operate at different frequencies.

Diversity: A transmission or reception technique used to improve system performance via switching amongst multiple antennas. Two methods are generally used, Polarization Diversity or Spatial Diversity. This technique is useful for operating in areas susceptible to the effects of multi-path interference.

Duty Cycle: A percentage of the time "on" (transmitting) versus the time "off" (not transmitting).

Effective Isotropic Radiated Power (EIRP): A measure of a signal's absolute power in a particular direction (see ERP), but relative to an Isotrope rather than a Dipole.

Fade Margin: The loss in signal along a signal path,

measured in dB, caused by environmental factors such as terrain, atmospheric conditions, etc.

Federal Communications Commission (FCC): A board of commissioners, appointed by the President, having the power to regulate wire and radio telecommunications in the United States.

Feed horn: That part of a parabolic or grid reflector antenna that contains the driven element.

Filter: A device used to block or reduce signals at certain frequencies while allowing others to pass through.

Full-Duplex Transmission: A channel that allows transmission in two directions at the same time. For example, cellular telephone service or an Ethernet based Network is typically full duplex.

Gain: The relative increase in power or magnitude of a signal typically measured in decibels (dB).

Gas Tube Arrestor: A type of lightning arrestor that employs a Gas Discharge Tube (GDT) as the protective device. A GDT consists of a sealed module containing two or more metallic elements and a mixture of gasses that conduct under high voltages.

Grid Antenna: A type of antenna that employs an open-frame grid as a reflector, rather than a solid one. The grid spacing is sufficiently small to ensure that waves of the desired frequency cannot pass through, and are hence reflected back toward the driven element.

Ground: A connection between a device or circuit and the earth or some device serving as the earth.

Half-Duplex Transmission: A channel that allows transmission in only one direction at a time, switching back and forth between transmit and receive. Most spread spectrum wireless LAN equipment is Half-Duplex.

High-Pass Filter: A signal filter that passes all frequencies above a certain frequency, and attenuates all lower frequencies.

Impedance: A measure of the total opposition to current flow in an alternating current circuit, made up of two components, ohmic resistance and reactance, and usually represented in complex notation as $Z = R + iX$, where R is the ohmic resistance and X is the reactance.

Insertion Loss: The loss in signal strength due to the insertion of a device in series with a signal path. Typically measured over the intended operating frequency range of the device and expressed in dB.

Isotropic: A theoretical "isotrope" is a single point in free space that radiates energy equally in every direction similar to the Sun.

Lightning Arrestor: A device whose purpose is to eliminate transients on a conductor that are induced by nearby lightning activity.

Low-Pass Filter: A signal filter that passes all frequencies below a certain frequency and attenuates all higher frequencies.

Low-Noise Amplifier (LNA): A low noise, typically small-signal amplifier for receive applications.

Metal Oxide Varistor (MOV): A type of surge protector arrester that offers high resistance to low voltages and low resistance to high voltages. Placing a MOV from a conductor to ground causes high voltage spikes to short-circuit to ground.

Multipath Interference: Signal reflections and delayed signal images that interfere with the desired un-delayed and larger desired signal. Causes picture ghosting for over the air analog TV and errors in digital transmission systems.

Multi-Strike Capability: The ability for a device to survive and work again after a surge event.

Omni-Directional Antenna: An antenna that radiates or receives RF energy in a 360 degree pattern about an axis.

Oscillator: A device that produces a "vibration" or variation in level at a given frequency.

Parabolic Dish Antenna: An antenna that utilizes a dish-like reflector to focus radio energy of a specific range of frequencies on a tuned element.

Parabolic Grid Antenna: An antenna that employs an open-frame grid rather than a solid dish reflector. (See also Grid Antenna)

Part 15 Rules (FCC): That part of the FCC regulations which regulates unlicensed use of ISM bands for wireless networking and other uses.

Patch Antenna: Typically a flat rectangular or round antenna having a directional radiation pattern.

Path Budget: A mathematical model of a wireless communications link that accounts for a wide variety of factors that affect operating range and performance. Sometimes called a "link" budget.

Path Loss: The weakening of a signal over its path of travel due to various factors like terrain, obstructions and environmental conditions. Measured in dB.

Point-to-Point: A communications channel that runs from one point to another.

Point-to-Multipoint: A communications channel that runs from one point to several other points.

Power Meter: A device used to measure radio frequency energy in Watts into a standard Impedance like 50 Ohms.

Propagation: The travel of a signal through a medium such as air or free space.

Radio Frequency (RF): Typically a frequency from 20 kHz to 100 GHz. RF is usually referred to whenever a signal is radiated through an enclosed medium like a transmission cable or air.

Radio Wave: A combination of electric and magnetic fields varying at a radio frequency and traveling through space at the speed of light.

Receive Gain: A measure of receive signal boost contributed by an amplifier or antenna system, and typically measured in dB.

Receiver Sensitivity: A measure of a receiver's ability to differentiate a desired signal from the background noise.

Safety Ground: The local earth ground. The earth ground which grounds the neutral return. A system may be earth grounded as many times as needed.

Signal-To-Noise Ratio (SNR): A measure of the magnitude of a desired signal relative to the magnitude of an undesired signal or noise.

Spectrum Analyzer: An instrument that can be used to view signal amplitude across a wide range of frequencies.

Splitter/Combiner: A transmission component which divides or sums power between two or more ports.

Throughput: A measure of the volume of information which can be transmitted (typically bits per second) through a given communications system. See Bandwidth.

Voltage Standing Wave Ratio (VSWR): VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. Perfect = 1.0:1, Good < 2.0:1

Wavelength: The distance that an electromagnetic wave travels in one complete cycle.

Wind Loading: A characteristic of an antenna or other structure that is a measure of the forces applied to the structure due to wind.

Wireless: A new all-encompassing "buzzword" which describes what used to be called "radio", but which typically also implies some of the newer cellular or digital radio technologies as well.

Wireless "Ethernet": A misnomer in actuality since "Ethernet" is a wired system by definition, but appropriate nevertheless to describe CSMA/CA wireless LAN's—since their operation has a great deal in common and they are typically integrated easily.

Wireless Local Area Network (WLAN): A short-range computer-to-computer wireless data communications network.

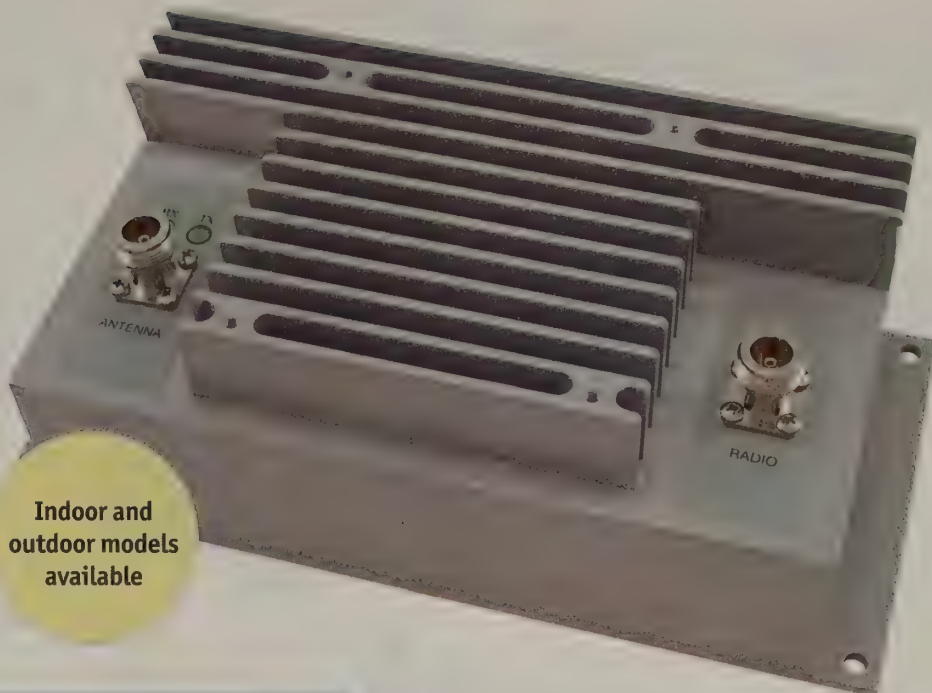
Yagi Antenna: A narrow band directional antenna named for one of its inventors, which consists of a boom supporting a series of metallic elements or rods.

HyperAmp® 5.8 GHz Bi-Directional Amplifiers

As a leader in the field of amplifier design and development, HyperLink offers several versions of its 5.8 GHz amplifiers for both indoor and outdoor use. Consisting of a low-noise receive amplifier and a transmit power amplifier, HyperAmp offers significant improvement in operating range and performance. Custom configurations are available, contact HyperLink today!

- Indoor and outdoor models available
- 5.8 GHz ISM, UNII Applications
- IEEE 802.11a
- Military, HAM and OEM 3 to 5 Watt versions
- Aluminum construction

Indoor and
outdoor models
available



Each Outdoor Kit Includes:

- HyperAmp® Remote Outdoor Amplifier
- DC Power Injector with Lightning Protection
- International Power Supply (110/220V)
- Mast Mounting Hardware

Each Indoor Kit Includes:

- HyperAmp® Indoor Amplifier
- International Power Supply (110/220V)

HA5803
CODE B

HA5801-500	A	500 mW 802.11a, Includes Power Supply/DC Injector	\$329.99
HA5803	B	3 W 802.11a, Includes Power Supply/DC Injector	\$1299.99
HA5805	B	5 W 802.11a, Includes Power Supply/DC Injector	\$1499.99
HA5801I-500	A	500 mW 802.11a, Includes Power Supply	\$299.99
HA5803I	B	3 W 802.11a, Includes Power Supply	\$1249.99
HA5805I	B	5 W 802.11a, Includes Power Supply	\$1449.99



HA5801I-500
CODE A



We Promise

HyperLink will ship in stock products the same day on all orders received before 4:00 PM EST.

Tech Talk:

Bi-Directional Amplifiers are used to extend the range of a Wi-Fi system. **HyperLink** is the **originator** of Bi-Directional amplifiers for the Wi-Fi market having offered its **first** model for 900 MHz in 1994. HyperLink offers the **highest performance** and **most powerful** line of Bi-Directional amplifiers in the industry today. Models offering power ratings of 100 mW through 25 Watts, for use in the 900 MHz, 2.4 and 5 GHz bands are available. Our amplifiers are available in **outdoor and indoor** styles as well as NEMA enclosure mounted versions. Learn more at hyperlinktech.com.

900 MHz Bi-Directional RF Amplifiers

HyperAmp® HA900 series RF amplifiers are compatible with 900 MHz wireless LAN equipment including the new generation 2.75 Mbit CCK (Complementary Code Keying) spread spectrum radios. HyperLink's Active Power Control circuit automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length.

The HyperAmp® HA900 series improves range by delivering full transmit power and receive gain directly at the antenna where it is most effective. This gain compensates for cable losses and actually increases the receive sensitivity of most wireless LAN radios. The unit can be configured to deliver the full transmit power with as little as 1 mW of input power, permitting cable runs of several hundred feet with no degradation in operating range.

- *Transmit and receive LEDs*
- *DC injector included with outdoor version*
- *Switching Power Supply included*
- *Integral mast mount with outdoor version*
- *Integral mounting feet with indoor version*



HA901I-APC
CODE A



HA901-APC

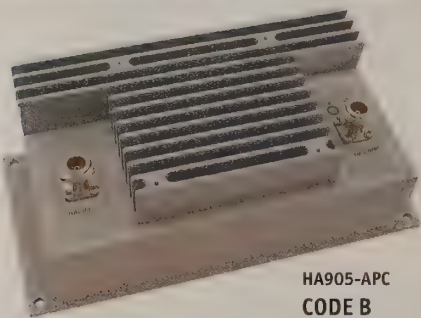
Compatible
with 2.75 Mbit
CCK spread
spectrum
radios

Each Outdoor Kit Includes:

- HyperAmp® Remote Outdoor Amplifier
- DC Power Injector with Lightning Protection
- International Power Supply (110/220V)
- Mast Mounting Hardware

Each Indoor Kit Includes:

- HyperAmp® Indoor Amplifier
- International Power Supply



HA905-APC
CODE B

HA900-APC500	A	500 mW Includes Power Supply/DC Injector	\$349.95
HA901-APC	A	1 W Includes Power Supply/DC Injector	\$379.99
HA903-APC	A	3 W Includes Power Supply/DC Injector	\$429.99
HA905-APC	B	5 W Includes Power Supply/DC Injector	\$499.99
NEW! HA905-DM	B	5 W OFDM Compatible Includes Power Supply/DC Injector	\$699.99
HA910-APC	B	10 W Includes Power Supply/DC Injector	\$699.99

HA900I-APC500	A	500 mW Includes Power Supply	\$299.95
HA901I-APC	A	1 W Includes Power Supply	\$329.99
HA903I-APC	A	3 W Includes Power Supply	\$379.99
HA905I-APC	B	5 W Includes Power Supply	\$449.99
NEW! HA905I-DM	B	5 W OFDM Compatible, Includes Power Supply	\$649.99
HA910I-APC	B	10 W Includes Power Supply	\$649.99

More amplifier info at:
www.hyperlinktech.com



Amplifiers

2.4 GHz 802.11b/g Compatible Ultra High Q 4-Pole and 8-Pole Wi-Fi Bandpass Channel Filters

HyperLink's indoor and outdoor 2.4 GHz Ultra-High Q Wi-Fi channel filters are ideal for co-located equipment installations. Available in seven versions for channels 1, 3, 6, 9, 11, 13 and 14, they provide excellent adjacent channel rejection. By reducing interference from both inside and outside the band, improved performance of co-located equipment can be achieved. These bandpass filters are Bi-Directional, so either end can be connected to the antenna. These filters are designed to be installed indoors or in weather-resistant enclosures. Both 4-Pole and 8-Pole models are offered.

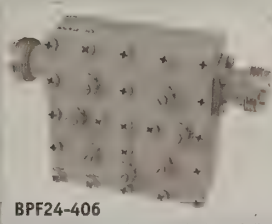
2.4/4.9/5 GHz Diplexers

HyperLink's 2.4/5 GHz Diplexers are designed to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4 GHz and 5 GHz antennas. They can also be used to combine those frequencies into a single cable. HyperLink Diplexers are available for indoor and outdoor applications and feature N-Female connectors.

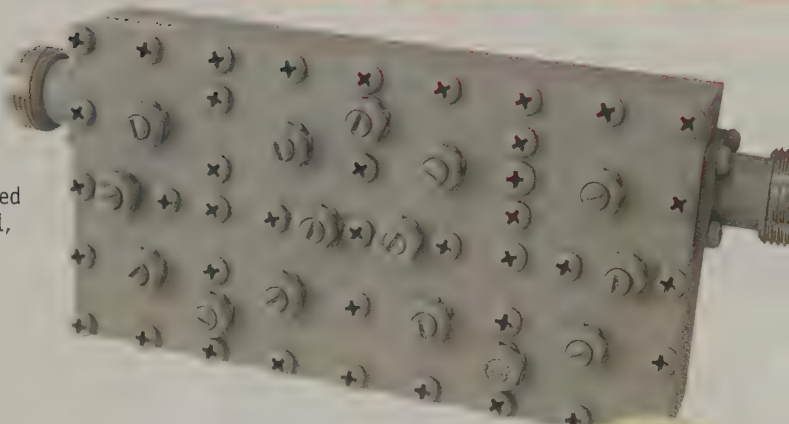
- *Reduces interference and improves performance*
- *Ideal for high data rate 802.11b/g*
- *Ultra low insertion loss*
- *Ultra-high quality microwave cavity filter*
- *Rugged aluminum construction*



BPF2400A



BPF24-406



BPF24-806

Ultra low
insertion loss

More signal filters at:
www.hyperlinktech.com

Tech Talk:

HyperLink offers two basic types of Band Pass Filters, Channel and Full Band. A Channel filter only allows signals within its pass band into the radio and rejects out of channel interferers. A Full Band Filter allows signals within the full 802.11 pass band into the radio and rejects out of band interferers like the 1.9 GHz PCS band. HyperLink offers a **full line** of Band Pass Filters for 900 MHz, 2.4 and 5 GHz radios that feature low insertion loss and superior rejection out of band signals. Learn more at hyperlinktech.com.

Connect - Wire - Solve



Signal Filters

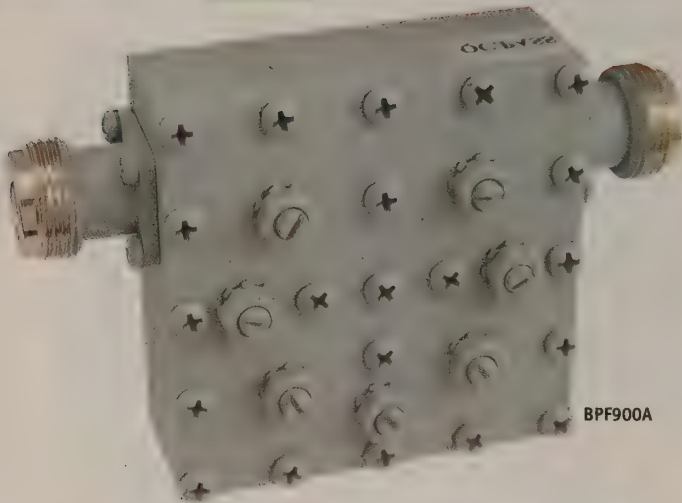
Item	Description	Price
BPF24-401	4-Pole, Indoor, Channel 1	\$59.99
BPF24-403	4-Pole, Indoor, Channel 3	\$79.99
BPF24-406	4-Pole, Indoor, Channel 6	\$79.99
BPF24-409	4-Pole, Indoor, Channel 9	\$79.99
BPF24-411	4-Pole, Indoor, Channel 11	\$79.99
BPF24-801	8-Pole, Indoor, Channel 1	\$99.99
BPF24-801A	8-Pole, Outdoor, Channel 1	\$149.99
BPF24-803	8-Pole, Indoor, Channel 3	\$99.99
BPF24-806	8-Pole, Indoor, Channel 6	\$99.99
BPF24-806A	8-Pole, Outdoor, Channel 6	\$149.99
BPF24-809	8-Pole, Indoor, Channel 9	\$99.99
BPF24-809A	8-Pole, Outdoor, Channel 9	\$99.99
BPF24-811	8-Pole, Indoor, Channel 11	\$99.99
BPF24-811A	8-Pole, Outdoor, Channel 11	\$149.99
BPF24-813	8-Pole, Indoor, Channel 13	\$99.99
BPF24-813A	8-Pole, Outdoor, Channel 13	\$99.99
BPF24-814	8-Pole, Indoor, Channel 14	\$49.99
BPF2400	4-Pole, Indoor, Full Band	\$99.99
BPF2400A	4-Pole, Outdoor, Full Band	\$149.99
DP245-NF	2.4/5.8 GHz, Outdoor, NF Connectors	\$49.99
DP2458-NF	2.4/5.8 GHz, Indoor, NF Connectors	\$139.99
HGX-PMT14	Filter Mast MNT Kit, 1-1/4in to 2in Diameter	\$12.99
HGX-AMOUNT01	Diplexor Mast MNT Kit, 1-1/4in to 2in Diameter	\$9.99
HGX-AMOUNT02	Diplexor Wall/Enclosure MNT Kit	\$9.99

NEW!

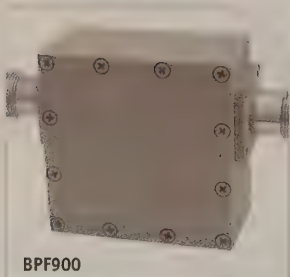
900 MHz Full Band Ultra High Q 4-Pole Indoor and Outdoor Bandpass Filters

The HyperLink 900 MHz 4-Pole Ultra-High Q full band filters are designed for full band applications. By reducing interference outside the 915 MHz band such as from cellular and paging signals, improved performance in noisy environments can be achieved. The BPF900 series filters are ideal for use with 902-928 MHz ISM band applications as well as 900 MHz RFID applications. Both filters feature rugged aluminum construction. The BPF900 is designed for indoor use. For outdoor applications choose the BPF900A.

- Ultra high quality microwave cavity filter
- Ultra low insertion loss
- Reduce interference and improve performance
- Industrial grade
- Rugged aluminum construction
- Provides lightning protection (DC Short)
- Ideal for 902-928 MHz ISM band applications
- Compact size
- N-Female connectors
- Optional mast mounting kit available for outdoor model



BPF900A



BPF900



HGX-PMT14

Mounting: For mounting 1-1/4" (31.7mm) to 2" (51mm) dia. masts. This kit contains an aluminum mounting bracket, zinc plated steel 1/4-20 x 2" U-Bolt with serrated flange nuts and filter mounting hardware. See Page 32 for more mounting options.

900 MHz		
BPF900	4-Pole, Indoor, Full Band	\$99.99
BPF900A	4-Pole, Outdoor, Full Band	\$149.99

4.9 GHz and 5.8 GHz Full Band Ultra High Q 4-Pole Bandpass Filters

The HyperLink 4.9 GHz and 5.8 GHz 4-Pole Ultra High Q full band channel filters are ideal for co-located equipment installations. These filters are designed for full band applications. By reducing interference outside the respective bands (4900 MHz or 5800 MHz depending on model), improved performance on the co-located equipment can be achieved. These bandpass filters are wide enough to pass high data rate signals without degradation. Both filters feature rugged aluminum weatherproof construction and can be used indoors or outdoors.

- Ultra high quality microwave cavity filter
- Ultra low insertion loss
- Reduce interference and improve performance
- Industrial grade
- Rugged aluminum weatherproof construction for outdoor or indoor use
- Provides lightning protection (DC Short)
- Ideal for high data rate wireless LAN applications
- Ideal for minimizing adjacent channel interference
- Optional mast mounting kit available



BPF5800A

Ideal for minimizing adjacent channel interference

4.9 GHz AND 5.8 GHz		
BPF4900A	4-Pole, Outdoor, Full Band	\$149.99
BPF5800A	4-Pole, Outdoor, Full Band	\$149.99

More signal filters at:
www.hyperlinktech.com

Signal Splitters

HyperGain® 800 MHz, 900 MHz, 2.4 GHz, 3.5 GHz and 5.8 GHz Signal Splitters/Signal Combiners

HyperLink's signal splitters/signal combiners are used for connecting more than one antenna to a single radio. They feature weatherproof construction and can be installed indoors or outdoors. These flexible splitters can be used with amplified systems since they will pass DC power to all ports. HyperGain® WLAN signal splitters/combiners are available in 2-way, 3-way and 4-way models and are available with N-Female and RP-TNC jack connectors.

- Connect multiple antennas to a single radio
- 2-way, 3-way and 4-way models
- RoHS compliant
- Cast aluminum construction
- Weatherproof for indoor or outdoor use
- DC power passes to all ports



We Promise

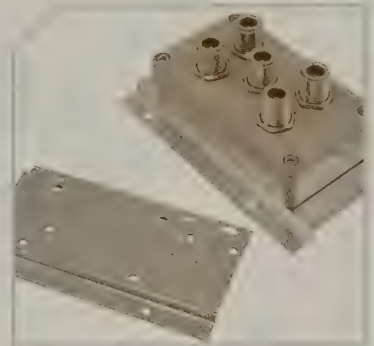
HyperLink will ship in stock products the same day on all orders received before 4:00 PM EST.



SC2403N



HGX-AMOUNT01 Mast Mounting Kit



HGX-AMOUNT02 Wall Mounting Kit

SIGNAL SPLITTERS

SCW02N	2-Way, NF Connectors	\$39.99
SCW03N	3-Way, NF Connectors	\$59.99
SC902N	2-Way, NF Connectors	\$49.99
SC903N	3-Way, NF Connectors	\$59.99
SC2402N	2-Way, NF Connectors	\$39.99
SC2402RTM	2-Way, RP-TNC Connectors	\$49.99
SC2403N	3-Way, NF Connectors	\$59.99
SC2403RTM	3-Way, RP-TNC Connectors	\$69.99
SC2404N	4-Way, NF Connectors	\$69.99
SC3502N	2-Way, NF Connectors	\$39.99
SC3504N	4-Way, NF Connectors	\$69.99
SC5802N	2-Way, NF Connectors	\$99.99
SC5804N	4-Way, NF Connectors	\$159.99
ANM-TERM1	N-Male 50-Ohm Terminator, 0-6 GHz	\$7.99
HGX-AMOUNT01	Splitter Mast MNT Kit, 1-1/4in to 2in Diameter	\$9.99
HGX-AMOUNT02	Splitter Wall/Enclosure MNT Kit	\$9.99

Complete Wireless Solutions

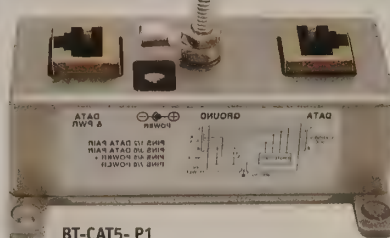


Power-over-Ethernet



PS4820-POE

Provides power and data on a single CAT5 cable

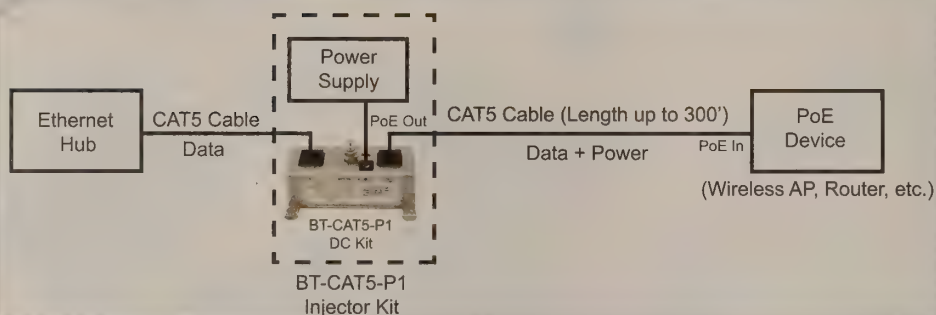


BT-CAT5-P1

Power-over-Ethernet (PoE) 12 and 48 VDC Injectors

HyperLink offers a wide range of PoE injector styles including reverse polarity, 12 VDC and 48 VDC models. These PoE injectors can be used to connect PoE compliant devices such as access points, IP phones or wireless routers and supply data as well as power over a single CAT5 cable.

Power-over-Ethernet eliminates the need for an AC outlet at each end device location. Only a single Ethernet cable is run to each device such as an access point instead of separate power and data cables. The injector is typically installed near the Ethernet switch.



BT-CAT5-P1 PoE Injector Application – Visit us online at www.hyperlinktech.com for complete details

- Wireless LAN access points and bridges
- Wireless LAN Wi-Fi amplifiers and amplified antennas
- VoIP (Voice over Internet Protocol) telephones
- IP surveillance cameras
- Bluetooth® access points
- Web cameras

More PoE products at:
www.hyperlinktech.com

Tech Talk:

The main advantage of PoE for the Wi-Fi industry is the installation of remote or outside equipment without having to connect to AC power. **Equipment can be installed without the need for an Electrician.** The use of PoE also eliminates the AC/DC connection as a path for surges into the equipment. In a wired network with a lot of remote nodes, PoE based switches or routers eliminate the need for large numbers of AC power supplies or the installation of new AC outlets at the remote nodes. Learn more at hyperlinktech.com.

PS4820-POE	48 VDC, 20 W, Dual RJ45, Includes Power Cord	\$39.99
PS4860-POE	48 VDC, 60 W, Dual RJ45, Requires PSCORD3	\$74.99
BT-CAT5-P1	5-48 VDC, 1 Port	\$29.99
BT-CAT5-P1-4848	48 VDC, 1 Port, Includes 48VDC/48W Supply	\$74.99
BT-CAT5-P1R	5-48 VDC, 1 Port, Reverse Polarity	\$29.99
BT-CAT5-P1R4848	48 VDC, 1 Port, Reverse Polarity, Includes 48VDC/48W Supply	\$79.99
BT-CAT5-R1-12	12 VDC, 1 Port, Regulated	\$59.99
PSCORD3	3 Conductor Plug, USA/AC Power Cord, 1ft	\$2.99
CA-CAT5-01	CAT5 Ethernet Patch Cable, 1ft	\$2.29
LC-TRD815BLK-5	CAT5e Ethernet Patch Cable, 5ft	\$4.99
CA-POE-02	CAT5 PoE Conversion Cable, 2ft	\$14.99

CAT5 and CAT6 Data Line Lightning and Surge Protectors

HyperLink's data line lightning and surge protectors are designed to protect CAT5 10/100 Base-T Ethernet systems as well as CAT6 10/100/1000 Base-T systems (models AL-CAT6W and HGLN-CAT6 only). Indoor and outdoor versions are available as well as compact weather resistant models and high-power industrial grade three-stage protectors. Many of these models are also Power-over-Ethernet (PoE) compatible. For detailed specifications and capabilities please visit us at www.hyperlinktech.com.

- Use with APs, routers, IP cameras
- Three-stage protection
- Failsafe architecture
- 10/100 Base-T CAT5 protection
- 10/100/1000 Base-T CAT6 protection
- RoHS compliant

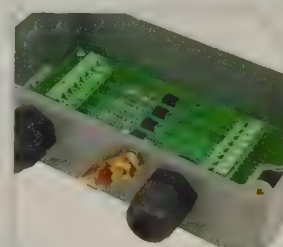
**Protect
10/100
Ethernet
networks**



HGLN-CAT5-HP
INDOOR



AL-CAT63W
WEATHER RESISTANT



AL-CAT6W
WEATHERPROOF

HGLN-CAT5-2	Indoor, 10/100 Base-T, Shielded, RJ45	\$37.99
AL-CAT5VW	Weather Resistant, 10/100 Base-T, RJ45	\$39.99
AL-CAT5W	Weatherproof, 10/100 Base-T, RJ45 and Screw Terminal	\$44.99
AL-CAT5PW	Weather Resistant, 10/100 Base-T, Punch Down Block	\$39.99
AL-CAT5JW	Weather Resistant, 10/100 Base-T, RJ45	\$39.99
AL-CAT5SW	Weather Resistant, 10/100 Base-T, Screw Terminal	\$39.99
HGLN-CAT5-HP	Indoor, 10/100 Base-T, 3-Stage, RJ45	\$59.99
AL-CAT5HPJW	Weather Resistant, 10/100 Base-T, 3-Stage, RJ45	\$59.99
AL-CAT5HPW	Weatherproof, 10/100 Base-T, 3-Stage, RJ45 and Terminal Block	\$69.99
AL-CAT5HPW-4	Weatherproof, 10/100 Base-T, 3-Stage, Multi-Port, RJ45 and Terminal Block	\$179.99

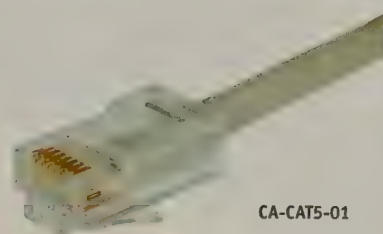
AL-CAT5EW	Weatherproof, 10/100 Base-T, Screw Terminal	\$49.99
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HGLN-CAT6	Indoor, 10/100/1000 Base-T, Shielded, RJ45	\$39.99
AL-CAT6W	Weatherproof, 10/100/1000 Base-T, Screw Terminal	\$59.99
AL-CAT6JW	Weather Resistant, 10/100/1000 Base-T, RJ45	\$39.99
AL-CAT6PW	Weather Resistant, 10/100/1000 Base-T, Punch Down Block	\$39.99

HGLN-DSL	Indoor, Phone/DSL, 3-Stage, RJ11	\$49.99
HGLN-D2-DT	Indoor, Phone/DSL, 3-Stage, Screw Terminal	\$49.99
AL-DSLJW	Weather Resistant, Phone/DSL, 3-Stage, RJ11	\$49.99
AL-DSLW	Weather Resistant, Phone/DSL, 3-Stage, Screw Terminal	\$49.99
HGLN-DC-12	Indoor, 12Vdc Power Line, Screw Terminal	\$37.99
HGLN-D2-05	Indoor, RS-422/485, RTDs, T1/E1/J1, 3-Stage, Screw Terminal	\$49.99
HGLN-D2-12	Indoor, RS-232, Control Lines, Sensors, 3-Stage, Screw Terminal	\$49.99
AL-D2W-05	Weather Resistant, RS-422/485, RTDs, T1/E1/J1, 3-Stage, Screw Terminal	\$49.99
AL-D2W-12	Weather Resistant, RS-232, Control Lines, Sensors, 3-Stage, Screw Terminal	\$49.99
AL-D2VW-2	Weather Resistant, DSL, 230V Phone, ISDN, T1/E1/J1, Screw Terminal	\$19.99
AL-D2VW-9	Weather Resistant, 90V Dedicated Line w/o Ring Voltage, Screw Terminal	\$19.99
AL-D4W-DT	Weather Resistant, Phone/DSL, T1/E1/J1, Screw Terminal	\$39.99
AL-D4W-05	Weather Resistant, RS-422/485, Screw Terminal	\$39.99
AL-D8W-12	Weather Resistant, RS-232, Screw Terminal	\$39.99

AL-D2-AW	Weatherproof, 4/8 Ohm Audio Systems, Screw Terminal	\$49.99
AL-D2-PAW	Weatherproof, 70.7/100V Public Address Systems, Screw Terminal	\$49.99

AL-D0VW-2	230V Suppression Module for AL-D2VW	\$5.99
AL-D0VW-9	90V Suppression Module for AL-D2VW	\$5.99
CA-CAT5-01	CAT5 Ethernet Patch Cable, 1ft	\$2.29
LC-TRD815BLK-5	CAT5e Ethernet Patch Cable, 5ft	\$4.99



CA-CAT5-01

Telephone/DSL/Audio Lightning and Surge Protectors

Telephone and control lines also can benefit from the added protection of HyperLink's lightning and surge protectors. We offer a broad range of indoor and outdoor protectors for use with telephone and DSL lines, T1/E1/J1 lines, RS-422 and RS-485 lines, 12 VDC power lines and RS-232 lines.

Audio systems also need protection from lightning strike electrical surges. HyperLink's audio systems protectors are designed to do just that. Our AL-D2-AW protector is designed for use with typical home audio systems. For protection of commercial applications such as office complexes and outdoor public areas (e.g. bus/train stations, parks) which typically use 70.7/100 volt public address systems, we recommend the AL-D2-PAW protector.

Protect Valuable Communications Equipment

HyperLink 0-3 GHz and 0-6 GHz Coaxial Lightning and Surge Protectors



Many
connector
options to
choose from

HyperLink's coaxial lightning and surge protectors are available in a wide selection of styles. Gas discharge tube protectors are available for 0-3 GHz and 0-6 GHz operation and feature easily replaced gas tube elements, multi-strike capability and bi-directional protection. By utilizing these easy to install lightning and surge protectors, you can protect valuable communications equipment from power surges and/or lightning strikes.

These units are ideal for IEEE 802.11b/g wireless LAN applications, as well as ISM, MMDS, Cellular, and PCS applications. Since these protectors will pass DC, they are suitable for applications where DC is carried through the coaxial cable, such as remote amplifiers and low-noise amplifiers.

- Protect valuable communications equipment
- Multi-strike capability
- Bi-Directional protection
- Easily replaced gas tube element
- RoHS compliant
- Protectors will pass DC



Tech Talk:

The use of lightning protectors offers enhanced system **reliability** and protection for expensive equipment from lightning or surges originating on the power line. Surges can be generated by lightning, static buildup or equipment on the AC mains such as AC compressors. A typical equipment installation provides **multiple paths** for a surge to enter and damage sensitive equipment. A surge can propagate down an RF antenna cable or up an Ethernet cable or AC/DC power connection. The surge can generate both Common and Differential Mode voltages that can damage equipment via these interfaces. HyperLink's lightning protectors provide protection from both Common Mode and Differential Mode surge events. Learn more at hyperlinktech.com.

COAXIAL			
	AL-NFNFB-9	N-Female to N-Female Bulkhead, 90V	\$18.99
NEW!	AL-NFNFBHP-9	N-Female to N-Female Bulkhead, Indoor, High Power, 90V	\$24.99
	AL-NMNF8-9	N-Male to N-Female Bulkhead, 90V	\$18.99
	AL-BMBFB-9	BNC Male to BNC Female Bulkhead, 90V	\$14.99
	AL-FFFF-9	F-Female to F-Female, 90V	\$23.99
	AL-RBPRBJB-9	RP-BNC Plug to RP-BNC Jack Bulkhead, 90V	\$14.99
	AL-RTPRTJB-9	RP-TNC Plug to RP-TNC Jack Bulkhead, 90V	\$23.99
	AL-TMTFB-9	TNC Male to TNC Female Bulkhead, 90V	\$23.99
	AL-UFUB-6	UHF Female to UHF Female Bulkhead, 90V	\$14.99
	AL6-NFNFB-9	N-Female to N-Female Bulkhead, 90V	\$29.99
	AL6-NMNF8-9	N-Male to N-Female Bulkhead, 90V	\$29.99
	AL6-RSPRSJB-9	RP-SMA Plug to RP-SMA Jack Bulkhead, 90V	\$29.99
	AL6-RTPRTJB-9	RP-TNC Plug to RP-TNC Jack Bulkhead, 90V	\$29.99
	AL6-TMTFB-9	TNC Male to TNC Female Bulkhead, 90V	\$29.99
NEW!	ALQ2-NMNF8	N-Male to N-Female Bulkhead, 1/4 Wave	\$39.99
	HGX-LPMOUNT01	ALQ2 Mounting Bracket	\$4.99
	LPX090G	0-6 GHz, 90V, Replacement Gas Tube	\$9.99
	LPX090	0-3 GHz, 90V, Replacement Gas Tube	\$4.99
	LPX230	0-3 GHz, 230V, Replacement Gas Tube	\$4.99
	LPX350	0-3 GHz, 350V, Replacement Gas Tube	\$4.99
	LPX600	0-3 GHz, 600V, Replacement Gas Tube	\$4.99

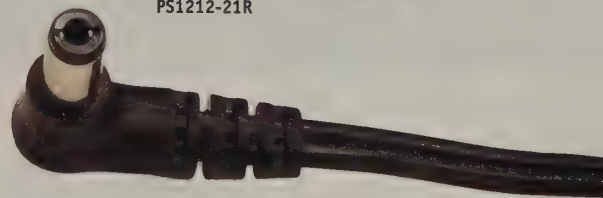
Switching Power Supplies, Power Cords, PoE Power Supplies and Lighter Power Adapters

We offer a broad range of switching power supplies which support 110/220 VAC operation. Models in this series include 9 VDC, 12 VDC, 15 VDC and 48 VDC options. Additionally, PoE power supplies are available which provide data and power over a single CAT5 cable to end devices which are compliant with IEEE standard PoE pinout (Pins 4&5 Power +/Pins 7&8 Power -).

- 9V, 12V, 15V, 48 VDC models available
- Use with PoE injectors/taps, wireless radios, RF amplifiers and more
- 20 W and 60 Watt PoE power supplies



PS1212-21R



9V, 12V, 15V
and 48 VDC
models
available

More power supplies at:
www.hyperlinktech.com



PS1224-21R



PS4820-POE

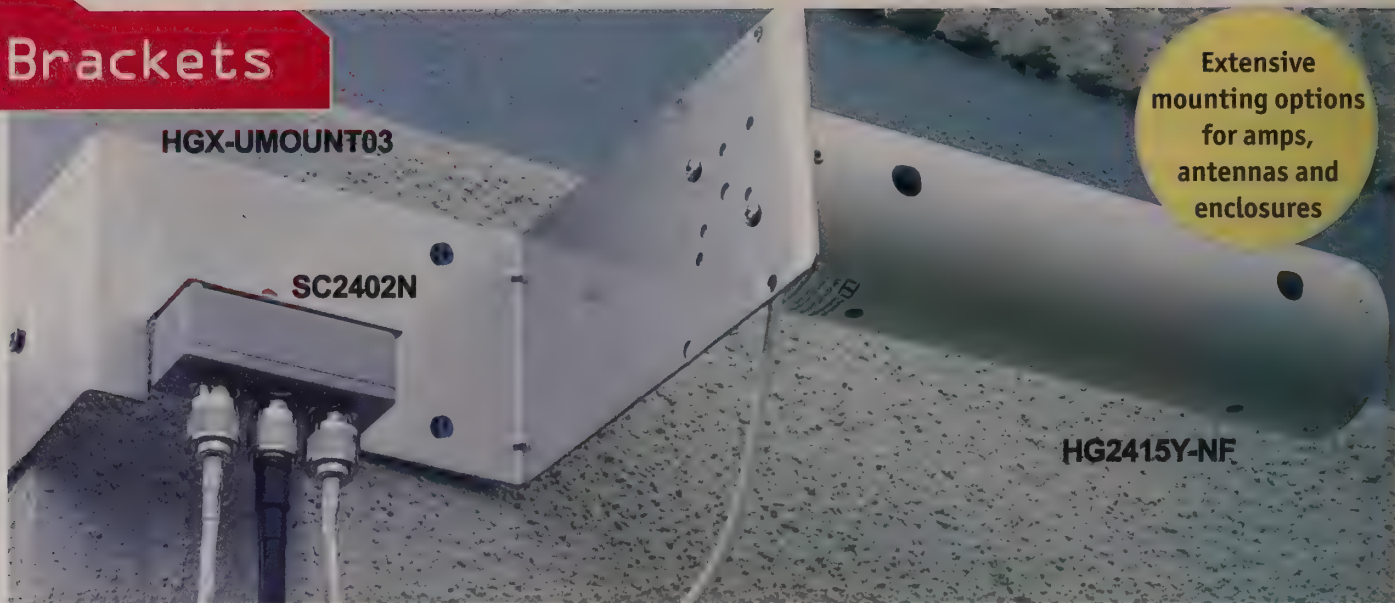
POWER SUPPLIES

NEW!	PS909-21R	9 VDC @ 1A (9W), 2.1mm DC Plug	\$21.99
	PS1212-21R	12 VDC @ 1A (12W), 2.1mm R/ Angle DC Plug	\$21.99
	PS1224-21R	12 VDC @ 2A (24W), 2.1mm R/ Angle DC Plug	\$24.99
	PS1240-21R	12 VDC @ 3.33A (40W), 2.1mm R/ Angle DC Plug	\$64.99
	PS1566	15 VDC @ 4.4A (66W), 2.1mm DC Plug	\$89.99
	PS4820-POE	48 VDC @ 0.83A (20W), Dual RJ45 PoE, Includes Power Cord	\$39.99
	PS4870-25R	48 VDC @ 1.5A (70W), 2.5mm R/ Angle DC Plug	\$99.99
	PS4848-25R	48 VDC @ 1A (48W) 2.5mm R/ Angle DC Plug	\$49.99
	PS4860-POE	48 VDC @ 1.25A (60W), Dual RJ45 PoE, Requires PSCORD3	\$74.99
	PS-LIGHTER-06	Cigarette Plug to 2.1mm R/ Angle DC Plug, 3A Fuse, 6ft	\$9.99
	PSX-EU1	US Flat or Euro Round to Euro 4.8mm Round A/C Adapter	\$3.99
	PSX-EU2	EU 4/4.8mm Round to US NEMA 6-15R Flat A/C Adapter	\$3.99
	PSCORD2	2 Conductor Plug, USA/AC Power Cord, 1ft	\$3.99
	PSCORD3	3 Conductor Plug, USA/AC Power Cord, 1ft	\$2.99

The HyperLink PS4820-POE is a Power-over-Ethernet (PoE) power supply with integral DC Injector. It provides DC power for one PoE-equipped device by "Injecting" DC power through the CAT5 Ethernet cable. It is compatible with AP's and other equipment supporting the IEEE standard PoE pinout (Pins 4&5 Power +/Pins 7&8 Power -). This unit can also be used with Cisco PoE equipment using the optional PoE conversion cable.

Since the PS4820-PoE is completely self-contained, a separate power supply and injector is not required. The PS4820-PoE features an impact resistant polycarbonate enclosure and includes a 3-prong detachable power cord.

Brackets



MOUNTING DETAIL– Visit us online at www.hyperlinktech.com for complete details

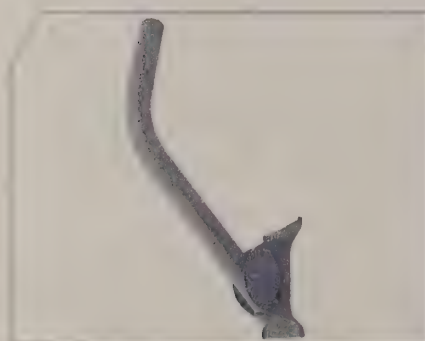


Mounting Brackets for NEMA Enclosures, Antennas, Amplifiers and Surge Protectors

HyperLink offers an extensive line of mounting bracket solutions for its antennas, amplifiers, NEMA enclosures and surge protectors. These brackets are designed for years of use indoors and outdoors. Options include wall mount, window mount, mast mount and more! By utilizing these versatile brackets virtually every installation requirement can be met. Visit us online at www.hyperlinktech.com for complete bracket dimensions and specifications.



HGX-PMT06– 60° Tilt-and-Swivel Mounting Kit



HGXUMOUNT– Coated galvanized steel for outdoor mounting

BRACKETS

HGX-AMOUNT01	Mast Mounting Kit for HyperLink Products w/4.6" x" 2.6" cases (2/3/4 Way Splitters, HA2401/DX-AGC/F-AGC & HA2401 Amps	\$9.99
HGX-AMOUNT02	Mounting bracket for HyperLink Amplifiers, PoE Products and Power Supplies	\$9.99
HGX-LPMOUNT01	ALQ2-NMNF Surge Protector Mounting Bracket	\$4.99
HGX-MMOUNT01	Ratchet Style Marine Antenna Mount	\$12.99
HGX-NMOUNT03	Universal Equipment Shelf. Mounts to pre-drilled NEMA plate	\$16.99
HGX-NMOUNT04	Universal Equipment Shelf-Mounts to pre-drilled NEMA Plate	\$27.99
HGX-NPLATE01	Blank Aluminum Mounting Plate use in the NB141207 NEMA enclosure	\$22.99
HGX-PMT02	Indoor Antenna Mounting Kit- Small Metal Tilt& Swivel	\$9.99
HGX-PMT03	Indoor Antenna Mounting Kit- Medium Plastic Tilt& Swivel	\$11.99
HGX-PMT04	Large Metal Tilt-and-Swivel Mounting Bracket for wall or mast mounting	\$19.99
HGX-PMT06	60 Degree Tilt-and-Swivel Mounting Kit for mounting to 1-1/4" to 2" Dia. Masts	\$8.99
HGX-PMT07	Stationary Mounting Kit for mounting to 1-1/4" to 2" Dia. Masts	\$5.99
HGX-PMT08	Suctions Cup Window Mounting kit for select Hyperlink Antennas	\$9.99
HGX-PMT11	Heavy Duty Stationary Mast Mounting Kit for mounting to 1-1/4" to 2" Dia. Masts	\$10.99
HGX-PMT13	NB141207 or NB181608 Series Weatherproof Enclosure to 2" (50.8mm) to 4" (101.6mm) Dia. Poles	\$39.99
HGX-PMT14	Mast Mounting Kit for HyperLink outdoor filters 1-1/4" to 2" Dia. Masts	\$12.99
HGX-PMT15	Indoor Antenna Mounting Kit- Compact Metal Tilt& Swivel	\$9.99
HGX-UMOUNT	Universal Antenna Mount powder coated galvanized steel "DSS-style" arm for outdoor wall mounting 21 in. Mounting Arm	\$14.99
HGX-UMOUNT01	Universal Antenna Mount powder coated galvanized steel "DSS-style" arm for outdoor wall mounting 26.7 in. Mounting Arm	\$15.99
HGX-UMOUNT01-PK	Universal Antenna Mount powder coated galvanized steel "DSS-style" arm for outdoor wall mounting 10 Pack	\$110.99
HGX-UMOUNT02	Ceiling/Wall Universal Antenna Mount Use with HyperLink's 4.5" sq and 8.5" sq. patch antennas	\$14.99
HGX-UMOUNT03	Universal Antenna Fixed Corner Mounting Bracket, Extension Kit and Hardware	\$34.99
HGX-UMOUNT04	Universal Corner Mounting Bracket	\$24.99
HGX-UMOUNT-10PK	Universal Antenna Mount powder coated galvanized steel "DSS-style" arm for outdoor wall mounting 10 Pack	\$109.99

Manufactured by HyperLink to Assure Absolute Dependability

Wireless LAN Pigtails

HyperLink manufactures and stocks the widest selection of wireless LAN pigtails and adapter cables. In addition to popular styles, HyperLink also offers hard to find connector combinations and can build custom pigtails/adapter cables based upon your specifications. Cable types supported in this series include 1.13 mini-Coaxial, 100-Series and 195-Series assemblies.

WIRELESS LAN PIGTAILS

CA-UFLNBQC20	U.FL to N-Female Bulkhead, 20cm	\$15.99
CA-UFLNMQC20	U.FL to N-Male, 20cm	\$15.99
CA-UFLRSBQC20	U.FL to RP-SMA Jack Bulkhead, 20cm	\$15.99
CA-UFLSBQC20	U.FL to SMA Female Bulkhead, 20cm	\$15.99
CA-UFLQ010	U.FL to Unterminated, 10ft	\$16.99
CA-UFLQC20	U.FL to Unterminated, 20cm	\$12.99
CA-RMMRTPCN19	RP-MMCX to RP-TNC Plug, 19in	\$2.99
CA-RMMNMCN19	RP-MMCX to N-Male, 19in	\$9.99
CA-RMMNFBCN19	RP-MMCX Plug to N-Female Bulkhead, 19in	\$18.95
CA-RMMNFCN19	RP-MMCX to N-Female, 19in	\$14.99
CA-SEPRSJC19	S/E Type 237 Plug to RP-SMA Jack, 19in	\$14.99
CA-SEPSFCN19	S/E Type 237 Plug to SMA Female, 19in	\$14.99
CA-SEPNCN19	S/E Type 237 Plug to N-Male, 19in	\$14.99
CA-MCRTPCN19	MC Card to RP-TNC Plug, 19in	\$9.99
CA-MCNMC1M5	MC Card to N-Male, 1.5m	\$9.99
CA-MCNMDN19	MC Card to N-Male, 19in	\$6.99
CA-MCNMCN19	MC Card to N-Male, 19in	\$7.99
CA-MCNFCN19	MC Card to N-Female, 19in	\$4.99
CA-MCNFBCN19	MC Card to N-Female Bulkhead, 19in	\$4.99
CA-MMNFCN19	MMCX to N-Female, 19in	\$14.99
CA-MMNFBCN19	MMCX to N-Female Bulkhead, 19in	\$19.99
CA-MMNMCN19	MMCX to N-Male, 19in	\$10.49
CA-MMSNMCN19	MMCX Straight to N-Male, 19in	\$19.99
CA-MPNFCN19	MCX Plug to N-Female, 19in	\$14.99
CA-MPNMCN19	MCX Plug to N-Male, 19in	\$14.99
CA-SNPNFCN19	SMA R/Angle Male to N-Male, 19in	\$14.99
CA-SNPTFBCN19	SMA Nano Plug to TNC Female Bulkhead, 19in	\$14.99
CA-SNPTFCN19	SMA Nano Plug to TNC Female, 19in	\$14.99
CA-SNPNMCN19	SMA Nano Plug to N-Male, 19in	\$14.99
CA-RTPNMB001	RP-TNC to N-Male, 1ft	\$6.00
CA-AMNFBCN19	AlProx to N-Female Bulkhead, 19in	\$9.49
CA-AMNMC1M5	AlProx to N-Male, 1.5m	\$9.99
CA-AMNMC2M5	AlProx to N-Male, 2.5m	\$24.95
CA-AMNMCN19	AlProx to N-Male, 19in	\$14.99
CA-AMNFCN19	AlProx to N-Female, 19in	\$7.49



CA-TMNMA002

Widest
selection of
in-stock
pigtails



CA-MMNMCN19



CA-RTPNMA002

More cables/pigtails at:
www.hyperlinktech.com

CA-AMNMCN19

CA-NMNFA002

CA-RTPRTJA002

CA-RSPRSJA010

CA-NMNMA002

Part Number	Description	Price
CA-AM1NFA010	3/4" NMO Mount to N-Female, 10ft	\$24.99
CA-AM1RSPA003	3/4" NMO Mount to RP SMA Plug, 3ft	\$24.99
CA-AM1RSPA014	3/4" NMO Mount to RP SMA Plug, 14ft	\$24.99
CA-AMNMA002	AlProx Male to N-Male, 2ft	\$14.99
CA-FMNMA002	F-Male to N-Male, 2ft	\$14.99
CA-NMNFA002	N-Male to N-Female, 2ft	\$9.99
CA-NMNFA004	N-Male to N-Female, 4ft	\$12.99
CA-NMNFA010	N-Male to N-Female, 10ft	\$14.99
CA-NMNFA020	N-Male to N-Female, 20ft	\$17.99
CA-NMNMA002	N-Male to N-Male, 2ft	\$14.99
CA-NMNMA004	N-Male to N-Male, 4ft	\$22.00
CA-NMNMA010	N-Male to N-Male, 10ft	\$25.00
CA-NMNMA020	N-Male to N-Male, 20ft	\$27.00
CA-NMRRSPA002	N-Male R/Angle to RP-SMA Plug, 2ft	\$14.99
CA-QPNMA002	QMA Plug to N-Male, 2ft	\$19.99
CA-RBPNA002	RP-BNC Plug to N-Female, 2ft	\$14.99
CA-RBPNFBA002	RP-BNC Plug to N-Female Bulkhead, 2ft	\$18.95
CA-RBPNMA002	RP-BNC Plug to N-Male, 2ft	\$14.99
CA-RSJRTPB010	RP-SMA Jack to RP-TNC Plug, 10ft	\$19.99
CA-RSJRTPB020	RP-SMA Jack to RP-TNC Plug, 20ft	\$24.99
CA-RSPNFA002	RP-SMA Plug to N-Female, 2ft	\$14.99
CA-RSPNFA002	RP-SMA Plug to N-Female Bulkhead, 2ft	\$18.95
CA-RSPNMA002	RP-SMA Plug to N-Male, 2ft	\$14.99
CA-RSPNMA004	RP-SMA Plug to N-Male, 4ft	\$22.00
CA-RSPNMA010	RP-SMA Plug to N-Male, 10ft	\$25.00
CA-RSPNMA020	RP-SMA Plug to N-Male, 20ft	\$27.00
CA-RSPNMB001	RP-SMA to N-Male, 1ft	\$6.00
CA-RSPRNMA002	RP-SMA R/Angle Plug to N-Male, 2ft	\$14.99
CA-RSPRNMA004	RP-SMA R/Angle Plug to N-Male, 4ft	\$22.00
CA-RSPRNMA010	RP-SMA R/Angle Plug to N-Male, 10ft	\$25.00
CA-RSPRNMA020	RP-SMA R/Angle Plug to N-Male, 20ft	\$27.00
CA-RSPRNMA002	RP-SMA Right Angle Plug to N-Male, 4ft	\$14.99
CA-RSPRNPA002	RP-SMA Plug to RP-N-Plug, 2ft	\$29.99
CA-RSPRSJA010	RP-SMA Plug to RP-SMA Jack, 10ft	\$25.00
CA-RSPRSJA020	RP-SMA Plug to RP-SMA Jack, 20ft	\$27.00
CA-RSPRTPA002	RP-SMA Plug to RP-TNC Plug, 2ft	\$19.95
CA-RTPNFA002	RP-TNC Plug to N-Female, 2ft	\$9.99
CA-RTPNFA004	RP-TNC Plug to N-Female, 4ft	\$9.99
CA-RTPNFA010	RP-TNC Plug to N-Female, 10ft	\$12.99
CA-RTPNFBA002	RP-TNC Plug to N-Female Bulkhead, 2ft	\$18.95
CA-RTPNFBA004	RP-TNC Plug to N-Female Bulkhead, 4ft	\$18.95
CA-RTPNMA002	RP-TNC Plug to N-Male, 2ft	\$9.99
CA-RTPNMA004	RP-TNC Plug to N-Male, 4ft	\$14.99
CA-RTPNMA010	RP-TNC Plug to N-Male, 10ft	\$12.99
CA-RTPNMA020	RP-TNC Plug to N-Male, 20ft	\$17.99
CA-RTPRNMA002	RP-TNC R/Angle Plug to N-Male, 2ft	\$14.99
CA-RTPRNMA004	RP-TNC R/Angle Plug to N-Male, 4ft	\$22.00
CA-RTPRNMA010	RP-TNC R/Angle Plug to N-Male, 10ft	\$25.00
CA-RTPRNMA020	RP-TNC R/Angle Plug to N-Male, 20ft	\$27.00
CA-RTPRNMA002	RP-TNC R/Angle Plug to N-Male, 2ft	\$14.99
CA-RTPRTJA002	RP-TNC Plug to RP-TNC Jack, 2ft	\$12.99
CA-RTPRTJA004	RP-TNC Plug to RP-TNC Jack, 4ft	\$22.00
CA-RTPRTJA010	RP-TNC Plug to RP-TNC Jack, 10ft	\$25.00
CA-RTPRTJA020	RP-TNC Plug to RP-TNC Jack, 20ft	\$27.00
CA-RTPRTJBA002	RP-TNC Plug to RP-TNC Jack Bulkhead, 2ft	\$18.95
CA-RTPRTPA002	RP-TNC Plug to RP-TNC Plug, 2ft	\$18.95
CA-SMNFA002	SMA Male to N-Female, 2ft	\$14.95
CA-SMNFA004	SMA Male to N-Female, 4ft	\$18.95
CA-SMNFBA002	SMA Male to N-Female Bulkhead, 2ft	\$18.95
CA-SMNMA002	SMA Male to N-Male, 2ft	\$14.99
CA-SMNMA004	SMA Male to N-Male, 4ft	\$16.99
CA-SMNMA010	SMA Male to N-Male, 10ft	\$19.99
CA-SMRNFA002	SMA R/Angle Male to N-Female, 2ft	\$14.95
CA-SMRNFA002	SMA R/Angle Male to N-Female Bulkhead, 2ft	\$18.95
CA-SMRNMA002	SMA R/Angle Male to N-Male, 2ft	\$14.99
CA-SSMNFA006	Shrouded SMA to N-Female, 6in	\$10.49
CA-SSMNMA002	Shrouded SMA to N-Male, 2ft	\$11.99
CA-SSMNMA006	Shrouded SMA to N-Male, 6in	\$10.49
CA-TMNFA002	TNC Male to N-Female, 2ft	\$14.99
CA-TMNMA002	TNC Male to N-Male, 2ft	\$14.99
CA-WMNFA002	WaveRider to N-Female, 2ft	\$15.99
CA-WMNMA002	WaveRider to N-Male, 2ft	\$15.99
CA-WMNMA005	WaveRider to N-Male, 5ft	\$16.99

ANTENNA CABLE ASSEMBLIES

The Right Connection—Guaranteed

Antenna Cable Assemblies

HyperLink manufactures high quality fully tested antenna feed cable assemblies featuring high performance, low loss coaxial cable from manufacturers such as CominScope®, Times Microwave® and HyperLink. These robust cables have excellent low loss characteristics and all HyperGain® antenna cable assemblies are RoHS compliant. HyperLink can manufacture custom cable assemblies to your specifications, including cable type, length and connectors. To order, visit www.hyperlinktech.com today!

More antenna cables at:
www.hyperlinktech.com



Excellent
low loss
characteristics

CA3N010

ANTENNA CABLE ASSEMBLIES

Item	Description	Price
CA-RSPNME002	RP-SMA Plug to N-Male, 2ft	\$25.00
CA-NMNFE010	N-Male to N-Female, 10ft	\$29.00
CA-NMNM010	N-Male to N-Male, 10ft	\$29.00
CA-RSPNME010	RP-SMA Plug to N-Male, 10ft	\$29.00
CA-NMNME002	N-Male to N-Male, 2ft	\$25.00
CA-NMNFE020	N-Male to N-Female, 20ft	\$34.00
CA-RSPNME020	RP-SMA Plug to N-Male, 20ft	\$34.00
CA-NMNM020	N-Male to N-Male, 20ft	\$34.00
CA-RSPNME004	RP-SMA Plug to N-Male, 4ft	\$26.00
CA-NMNM004	N-Male to N-Male, 4ft	\$26.00
CA-NMNM050	N-Male to N-Male, 50ft	\$48.00
CA-NMNM010	N-Male to N-Male, 10ft	\$29.00
CA-SMNM010	SMA Male to N-Male, 10ft	\$29.00
CA-NMNM002	N-Male to N-Male, 2ft	\$25.00
CA-RTPNFT002	RP-TNC Plug to N-Female, 2ft	\$25.00
CA-SMNM002	SMA Male to N-Male, 2ft	\$25.00
CA-NMNM004	N-Male to N-Male, 4ft	\$26.00
CA-NMNM004	N-Male to N-Female, 4ft	\$26.00
CA-RTPNFT004	RP-TNC Plug to N-Female, 4ft	\$26.00
CA-SMNM004	SMA Male to N-Male, 4ft	\$26.00
CA-RTPNFT010	RP-TNC Plug to N-Female, 4ft	\$29.00
CA3N010	N-Male to N-Male 10ft	\$24.99
CA4NMRSF010	RP-SMA Plug to N-Male 10ft	\$27.99
CA4NMRTF010	RP-TNC Plug to N-Male 10ft	\$27.99
CA4RNPNM010	RP N Plug to N-Male 10ft	\$22.95
CA4RTMRTF010	RP-TNC Jack to RP-TNC Plug 10ft	\$27.99
CA4RTPRTP010	RP-TNC Plug to RP-TNC Plug 10ft	\$22.95
CA4NMSM010	SMA Male to N-Male 10ft	\$29.99
CA3N100	N-Male to N-Male 100ft	\$119.99
CA4N100	N-Male to N-Female 100ft	\$119.99
CA4NMRSF100	RP-SMA Plug to N-Male 100ft	\$119.99
CA4NMRTF100	RP-TNC Plug to N-Male 100ft	\$119.99
CA4N010	N-Male to N-Female 10ft	\$27.99
CA3N002	N-Male to N-Male 2ft	\$19.99
CA4NMRRSP002	N-Male Right Angle to RP-SMA Plug 2ft	\$21.99
CA4NMRRTP002	N-Male Right Angle to RP-TNC Plug 2ft	\$21.99
CA4NMRSF002	RP-SMA Plug to N-Male 2ft	\$21.99
CA4NMRTF002	RP-TNC Plug to N-Male 2ft	\$21.99
CA4NMSM002	SMA Male to N-Male 2ft	\$24.99
CA4RNPNM002	RP N Plug to N-Male 2ft	\$21.99
CA4RTMRTF002	RP-TNC Jack to RP-TNC Plug 2ft	\$21.99
CA4RTPRTP002	RP-TNC Plug to RP-TNC Plug 2ft	\$21.99

Item	Description	Price
CA4N002	N-Male to N-Female 2ft	\$22.99
CA3N020	N-Male to N-Male 20ft	\$29.99
CA4N020	N-Male to N-Female 20ft	\$32.99
CA4NMRSF020	RP-SMA Plug to N-Male 20ft	\$34.99
CA4NMRTF020	RP-TNC Plug to N-Male 20ft	\$39.99
CA4RTMRTF020	RP-TNC Jack to RP-TNC Plug 20ft	\$44.99
CA3N025	N-Male to N-Male 25ft	\$34.99
CA4N025	N-Male to N-Female 25ft	\$39.99
CA4NMRSF025	RP-SMA Plug to N-Male 25ft	\$39.99
CA4NMRTF025	RP-TNC Plug to N-Male 25ft	\$39.99
CA4NMSM025	SMA Male to N-Male 25ft	\$49.99
CA4RTMRTF025	RP-TNC Jack to RP-TNC Plug 25ft	\$49.99
CA3N030	N-Male to N-Male 30ft	\$54.99
CA4NMRSF030	RP-SMA Plug to N-Male 30ft	\$44.99
CA3N040	N-Male to N-Male 40ft	\$64.99
CA3N050	N-Male to N-Male 50ft	\$47.99
CA4N050	N-Male to N-Female 50ft	\$49.99
CA4NMRSF050	RP-SMA Plug to N-Male 50ft	\$49.99
CA4NMRTF050	RP-TNC Plug to N-Male 50ft	\$49.99
CA4RTMRTF050	RP-TNC Jack to RP-TNC Plug 50ft	\$69.99
CA4RTPRTP050	RP-TNC Plug to RP-TNC Plug 50ft	\$44.95
CA3N075	N-Male to N-Male 75ft	\$87.99
CA4N075	N-Male to N-Female 75ft	\$87.99
CA4NMRSF075	RP-SMA Plug to N-Male 75ft	\$87.99
CA4NMRTF075	RP-TNC Plug to N-Male 75ft	\$84.99
CA4RNPNP075	RP N Plug to RP N Plug 75ft	\$89.99
CA-6NMNM010	N-Male to N-Male, 10ft	\$52.00
CA-6NMNM025	N-Male to N-Male, 25ft	\$70.00
CA-6NMNM050	N-Male to N-Male, 50ft	\$100.00
CA-6NMNM075	N-Male to N-Male, 75ft	\$130.00
CA-6NMNM100	N-Male to N-Male, 100ft	\$160.00
CC-9NMNM025	N-Male to N-Male, 25ft	\$556.00
CC-9NMNM050	N-Male to N-Male, 50ft	\$798.00
CC-9NMNM075	N-Male to N-Male, 75ft	\$1220.00
CC-9NMNM100	N-Male to N-Male, 100ft	\$1550.00
CC-9NMNF025	N-Male to N-Female, 25ft	\$556.00
CC-9NMNF050	N-Male to N-Female, 50ft	\$798.00
CC-9NMNF075	N-Male to N-Female, 75ft	\$1220.00
CC-9NMNF100	N-Male to N-Female, 100ft	\$1550.00

Adapters

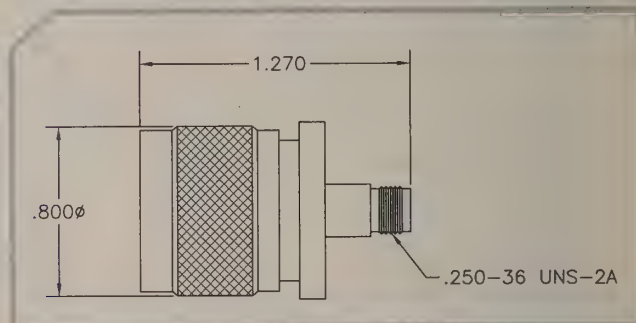


Precision Adapters for Every Application

Adapters

HyperLink stocks hundreds of the most popular types of coaxial adapters for today's wireless applications. A multitude of adapter configurations are available off the shelf and are ready for same day shipping. Popular styles include N-Male, N-Female, RP-TNC, RP-SMA as well as SMA male and female combinations. These adapters are great for connecting unlike cable connector types when installing RF radios, amplifiers, splitters and filters. Go online today to see our complete range of adapter choices.

- *Connect unlike cable ends*
- *Quality construction ensures long life*
- *RoHS compliant*
- *Widest selection*



AXA-NMSF Technical Specifications— For detailed engineering drawings please see our website www.hyperlinktech.com

ADAPTERS

AXA-RTPTP	RP TNC-Plug to RP TNC-Plug Barrel Adapter	\$3.49
AXA-AMNFB	N-Female Bulkhead to NMO Adapter	\$12.99
AXA-NFBF	N-Female to BNC-Female Adapter	\$2.99
AXA-NFBM	N-Female to BNC-Male Adapter	\$3.49
AXA-NFMUM	N-Female to Mini-UHF Male Adapter	\$0.99
AXA-NFNF	N-Female to N-Female Bullet Adapter	\$3.99
AXA-NFNFB	N-Female to N-Female 1/8" Adapter	\$3.49
AXA-NFNFB2	N-Female to N-Female 1/4" Adapter	\$3.49
AXA-NFRBP	N-Female to RP BNC Plug Adapter	\$3.49
AXA-NFRSJ	N-Female to RP-SMA Jack Adapter	\$4.99
AXA-NFRSP	N-Female to RP-SMA Plug Adapter	\$3.99
AXA-NFRTT	N-Female to RP-TNC Plug Adapter	\$4.99
AXA-NFRTT2	N-Female to RP-TNC Plug Adapter- 1 Piece Design	\$4.99
AXA-NFSF	N-Female to SMA Female Adapter	\$4.99
AXA-NFTM	N-Female to TNC Male Adapter	\$3.49
AXA-NMBF	N-Male to BNC Female Adapter	\$3.49

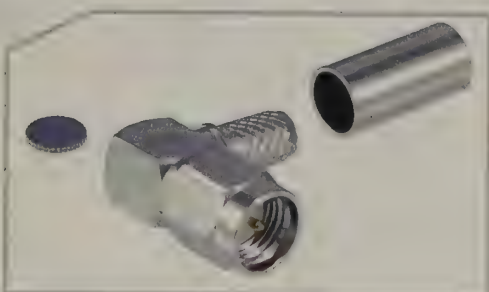
		Price
AXA-NMFF	N-Male to F-Female Adapter	\$3.49
AXA-NMNF90	N-Male to N-Female R/Angle Adapter	\$5.99
AXA-NMNM	N-Male to N-Male Barrel Adapter	\$3.99
AXA-NMNM90	N-Male to N-Male R/Angle Adapter	\$5.99
AXA-NMRSJ	N-Male to RP-SMA Jack Adapter	\$4.99
AXA-NMRSP	N-Male to RP-SMA Plug Adapter	\$4.99
AXA-NMRTJ	N-Male to RP-TNC Jack Adapter	\$4.99
AXA-NMRTT	N-Male to RP-TNC Plug Adapter	\$4.99
AXA-NMSF	N-Male to SMA Female Adapter	\$3.99
AXA-NMSM	N-Male to SMA Male Adapter	\$3.99
AXA-NMTF	N-Male to TNC Female Adapter	\$3.99
AXA-RSJRSJB	RP-SMA Jack to RP-SMA Jack Bulkhead Bullet Adapter	\$3.99
AXA-RSPRSP	RP-SMA Plug to RP-SMA Plug Barrel Adapter	\$3.99
AXA-RTJRSP	RP-TNC Jack to RP-SMA Plug Adapter	\$3.99
AXA-RTJRTJ	RP-TNC Jack to RP-TNC Jack Bullet Adapter	\$3.99
AXA-RTPRSJ	RP-TNC Plug to RP-SMA Jack Adapter	\$3.99
AXA-SFSFB	SMA Female to SMA Female Bulkhead Bullet Adapter	\$3.99
AXA-SMSM	SMA Male to SMA Male Barrel Adapter	\$3.49

In Wireless, Every Connection Counts

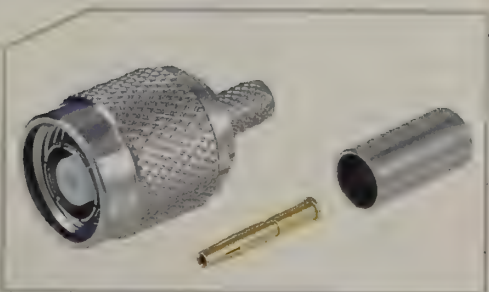
Connectors

HyperLink's coaxial connector offering includes Type-N, TNC, SMA, BNC, MCX, Mini-UHF, MC Card, F-Type and more. In addition to the most popular styles we also provide harder to find connectors for all your application needs. Configurations include crimp style, clamp style, bulkhead style and panel mount connectors. Each connector is precision manufactured using only the highest quality materials. Detailed engineering drawings are available online at www.hyperlinktech.com.

- Durable construction
- RoHS compliant
- Widest selection
- Easy to terminate



ASM-1710 - 19 Series SMA Male Right Angle Crimp



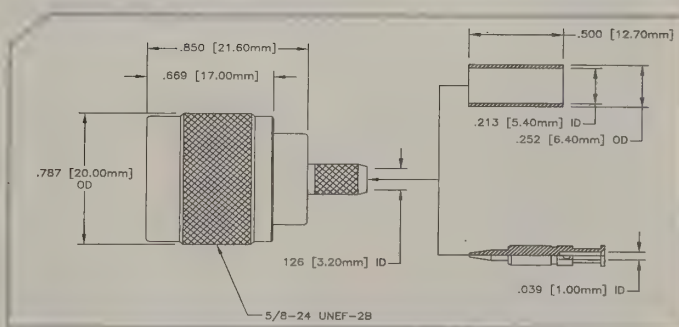
ARTP-1200 - 200 Series RP-TNC Plug Crimp



See Page 38
for complete
connector
product listing

Tech Talk:

Proper termination of coaxial connectors is **imperative** to attain peak performance. By selecting the proper connector and termination tool for your chosen cable type, **optimal performance** can be realized. Whether using a clamp or crimp style coaxial connector make sure to prep your cable per the manufacturer recommendations as far as strip length, etc. It is also important to use the right sized crimp die. For a complete listing of crimp tools and other termination accessories see Page 39. Learn more at hyperlinktech.com.



ANM-1700 Technical Specifications - For detailed engineering drawings please see our website www.hyperlinktech.com

Most Popular HyperLink Connectors

More connectors at:
www.hyperlinktech.com

AAPM-1100	AlProx Male Right Angle Crimp	\$3.80
AMCM-1102	MC Card Male Crimp	\$2.99
AMM-1102	MCX Male Straight Crimp	\$2.99
AMMM-1100	MMCX Male Crimp	\$2.99
AMMM-1104	MMCX Male Right Angle Crimp	\$2.99
AMMM-1106	MMCX Male Straight Crimp	\$2.99
ARMMP-1100	RP-MMCX Plug Right Angle Crimp	\$3.29
ARSP-1100	RP-SMA Plug Crimp	\$3.29
ASM-1102	SMA Male Crimp	\$3.29
ASNp-1100	SMA Nano-Plug Crimp	\$3.99
ASEP-1100	S/E Plug, Ericson Type 23,7 Crimp	\$0.99

AAPM-1700	AlProx Male Right Angle Crimp	\$3.29
ABM-1700	BNC Male Crimp	\$1.99
AFM-1700	F-Male Crimp	\$2.99
ANF-3700	N-Female Bulkhead Crimp	\$3.99
ANF-1700	N-Female Crimp	\$3.29
ANF-1700-25BP	N-Female Crimp 25 Pack	\$3.29
ANF-5700	N-Female Panel Mount Crimp	\$3.49
ANM-1700	N-Male Crimp	\$3.29
ANM-1700-25BP	N-Male Crimp 25 Pack	\$3.29
ANM-1716	N-Male Right Angle Crimp	\$3.99
AAM1-1700	NMO 3/4" Hole Crimp	\$3.49
AQP-1700	QMA Plug Right Angle Crimp	\$5.99
ARBJ-1700	RP-BNC Jack Crimp	\$0.99
ARBP-1700	RP-BNC Plug Crimp	\$3.29
ARNJ-1700	RP-N Jack Crimp	\$3.99
ARNP-1700	RP-N Plug Crimp	\$3.99
ARSJ-3700	RP-SMA Jack Bulkhead Crimp	\$3.99
ARSJ-1700	RP-SMA Jack Crimp	\$3.99
ARSP-1700	RP-SMA Plug Crimp	\$3.99
ARSP-1702	RP-SMA Plug Right Angle Crimp	\$3.99
ARTJ-3702	RP-TNC Jack Bulkhead Crimp	\$2.99
ARTJ-1708	RP-TNC Jack Crimp	\$2.99
ARTP-1708	RP-TNC Plug Crimp	\$2.99
ARTP-1708-25BP	RP-TNC Plug Crimp 25 Pack	\$2.99
ARTP-1714	RP-TNC Plug Right Angle Crimp	\$3.99
ASM-1714	Shrouded SMA Male Right Angle Crimp	\$3.29
ASF-3700	SMA Female Bulkhead Crimp	\$3.29
ASF-1708	SMA Female Crimp	\$3.29
ASM-1710	SMA Male Right Angle Crimp	\$3.29
ASM-1708	SMA Male Straight Crimp	\$3.29
ATF-3700	TNC Female Bulkhead Crimp	\$3.29
ATF-1700	TNC Female Crimp	\$1.49
ATM-1700	TNC Male Crimp	\$2.99
AUM-1700	UHF Male Crimp	\$2.79

ANF-1202	N-Female Crimp	\$3.29
ANM-1202	N-Male Crimp	\$3.29
ARNP-1202	RP-N Plug Crimp	\$3.99
ARSP-1202	RP-SMA Plug Crimp	\$3.29
ARTP-1200	RP-TNC Plug Crimp	\$2.99
ATM-1204	TNC Male Crimp	\$2.99

ANF-1508	N-Female Crimp	\$3.29
ANM-1508	N-Male Crimp	\$3.29
ANM-1516	N-Male Right Angle Crimp	\$5.99
ARSP-1504	RP-SMA Plug Crimp	\$3.99
ARTP-1502	RP-TNC Plug Crimp	\$3.99
ASM-1504	SMA Male Crimp	\$2.99
ATF-1506	TNC Female Crimp	\$0.99
ATM-1506	TNC Male Crimp	\$3.49

ANF-1304	N-Female Crimp	\$0.99
ANM-1304	N-Male Crimp	\$0.99
ARTP-1312	RP-TNC Plug Crimp	\$0.99

ARNJ-1404	RP-N Jack Crimp	\$0.99
ANF-2400	N-Female Clamp	\$3.49
ANF-1406	N-Female Crimp	\$3.29
ANM-2400	N-Male Clamp	\$3.49
ANM-1406	N-Male Crimp	\$3.29
ANM-1406-25BP	N-Male Crimp 25 Pack	\$3.29
ANM-1416	N-Male Right Angle Crimp	\$3.99
ARBP-1402	RP-BNC Plug Crimp	\$0.99
ARNP-1404	RP-N Plug Crimp	\$3.99
ARSJ-1404	RP-SMA Jack Crimp	\$3.99
ARSP-1404	RP-SMA Plug Crimp	\$4.99
ARTJ-3400	RP-TNC Jack Bulkhead Crimp	\$0.99
ARTJ-1404	RP-TNC Jack Crimp	\$3.29
ARTP-1404	RP-TNC Plug Crimp	\$3.99
ASM-1406	SMA Male Crimp	\$1.29
ATF-1402	TNC Female Crimp	\$3.29
ATM-1402	TNC Male Crimp	\$3.49
ATML-1400	TNC Male Reverse Thread Crimp	\$0.99
AUM-1402	UHF Male Crimp	\$2.79

ANF-2602	N-Female Clamp	\$1.29
ANF-1610	N-Female Crimp	\$5.99
ANM-2602	N-Male Clamp	\$4.99
ANM-1610	N-Male Crimp	\$5.99
ANM-16 16	N-Male Right Angle Crimp	\$5.99
ARTJ-1606	RP-TNC Jack Crimp	\$0.99
ARTP-1606	RP-TNC Plug Crimp	\$4.99
ATM-1608	TNC Male Crimp	\$0.99

ANM-2904	N-Male Clamp	\$49.99
ANF-2904	N-Female Clamp	\$49.99

ANM-TERM1	N-Male 50 Ohm Terminator 0-60 GHz	\$7.99
ANF-4000	N-Female Panel Mount 4-Hole, 1 in. Flange Solder Connector	\$3.49
ANF-1A18	RG6 N-Female Crimp	\$1.29
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ARTP-1A10	RG6 RP-TNC Plug	\$2.99
ARSJ-4000	RP-SMA Jack Panel Mount 4-Hole 1" Flange	\$0.99

ASR-PG11	PG11 Strain Relief Cable Gland	\$3.99
ASR-PG13	PG13.5 Strain Relief Cable Gland	\$3.99
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900 MHz 15 dBi Parabolic Grid Antenna - NF Connector

- Superior performance
- One Cart assessment consultation
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- 1/2" boom width

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The HyperLink High Performance Parabolic Grid Antenna provides 15 dBi gain with a 18" beam width for directional applications: satellite applications, point to point systems and Non Line of Sight (NLOS) applications. It is ideal suited for ISM/PCS and UHF/LF bands. 1 year warranty includes 24-hour service. L-com, HyperLink, Wireless Video Link and 802.11b Cellular. 802.11b cellular, if they are not in compliance due to the excellent flow to back metal. The antenna is made with a 1/2" wide beam terminated with an NF connector.

3D Antenna Gain Patterns

Vertical

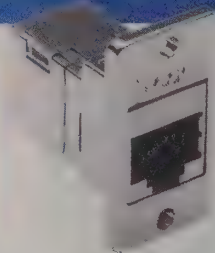
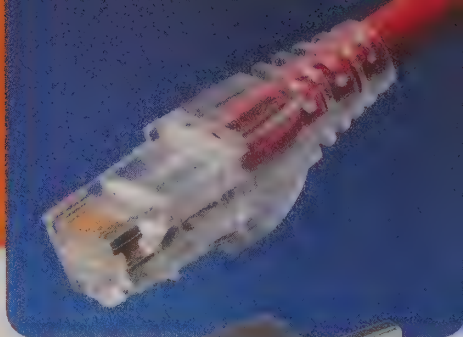
Horizontal

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Tools and Accessories

HyperLink's tools and accessories offering includes all the things needed to complete an installation such as weatherproof tape, cable ties, grounding kits, crimp frames and dies, crimp kits and more. These useful and necessary items are a must for any installation or maintenance person.



HT-KIT-01 DETAIL

Tools and Accessories



HT-GK400

TOOLS AND ACCESSORIES

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HT-STRIP400	Times Microwave® ST-400EZ Strip Tool for 400 Series Crimp Style Connectors	\$74.99
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HT-STRIP400

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"In partnership with HyperLink Technologies, we have enhanced our product offerings for wireless/WAN communications, which was high on our customers' lists. HyperLink's extremely qualified and friendly sales team ensures that we are always provided with excellent service and product offerings, which makes them leaders in today's highly competitive market. I look forward to an excellent partnership in the years come."

— Riaz Khimany, X-Link Systems Inc



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Bulk Cable

HyperLink's wide range of bulk coaxial cable includes products from CommScope®, Times Microwave® and HyperLink. This series begins with 100-Series bulk offering all the way to very low loss, high performance 900-Series cable. This bulk coaxial cable is great for making radio pigtailed or longer length antenna cables.

In addition to bulk coaxial cable, HyperLink also offers bulk CAT5 and CAT5e enhanced network cable for all of your voice, video and data needs.

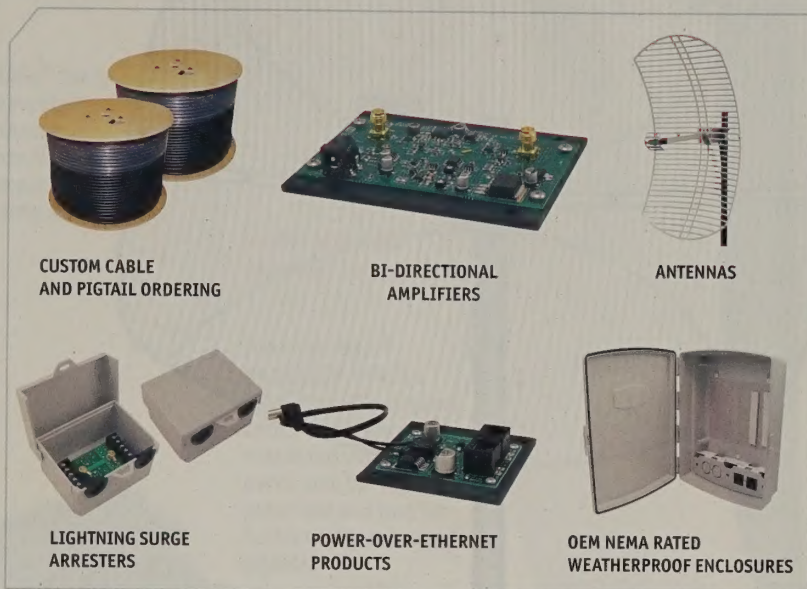
CA100-FOOT	CommScope Bulk Cable- By the Foot	\$0.59
CA100-REEL	CommScope Bulk Cable- 1,000' Reel	\$279.99
CA100W-FOOT	CommScope White Bulk Cable- By the Foot	\$0.59
CA100W-REEL	CommScope White Bulk Cable- 1,000' Reel	\$279.99
CA195R-FOOT	CommScope Bulk Cable- By the Foot	\$0.37
CA195RW-FOOT	HyperLink White Bulk Cable- By the Foot	\$0.59
CA195RW-REEL	HyperLink White Bulk Cable- 1,000' Reel	\$349.99
CA-195P-R500	HyperLink Plenum Rated Bulk Cable- 500' Reel	\$249.99
CA-195R-R1K	HyperLink Bulk Cable- 1,000' Reel	\$199.99
CA-200-R1K	HyperLink Bulk Cable- 1,000' Reel	\$269.99
CA-200-FOOT	HyperLink Bulk Cable- By the Foot	\$0.49
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CA-240-FOOT	HyperLink Bulk Cable- By the Foot	\$0.55
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CA-400-R1K	HyperLink Bulk Cable- 1,000' Reel	\$369.99
CA400-REEL	CommScope Bulk Cable- 1,000' Reel	\$519.99
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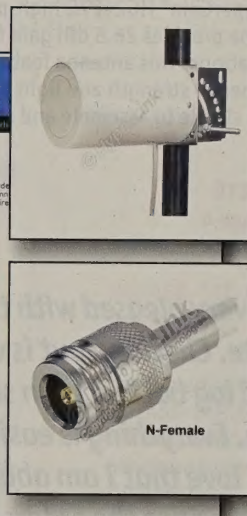
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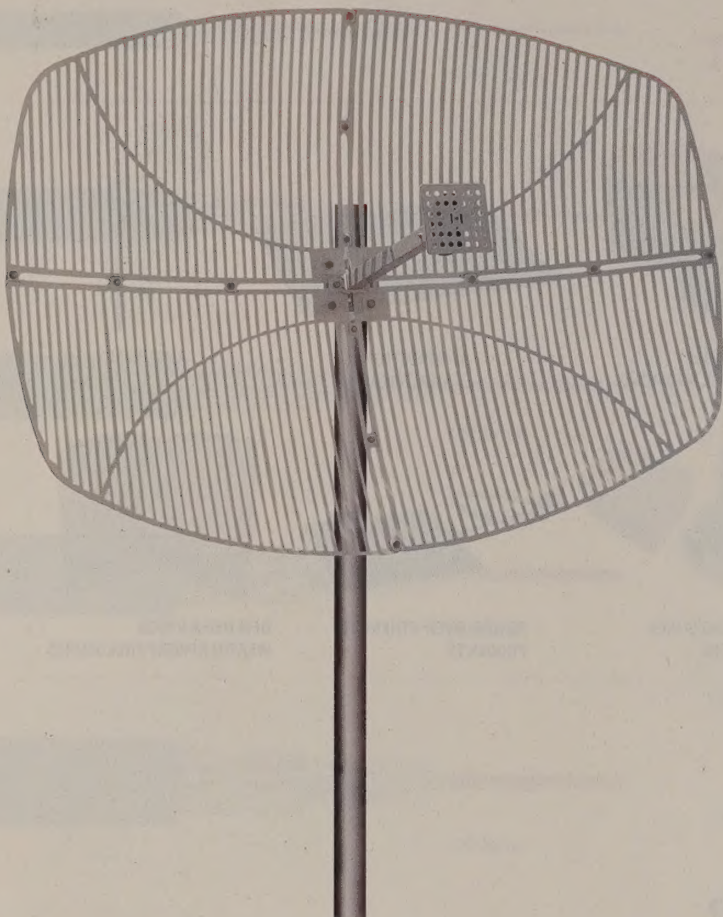


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New Products



The HyperGain® HG2427G high-performance 2.4 GHz reflector grid antenna provides 26.5 dBi gain for long-range highly directional applications. This antenna features a die cast aluminum reflector grid for superior strength and light weight. The antenna's 4-piece reflector grid is simple to assemble and significantly reduces shipping costs.

HG2427G
See Page 4

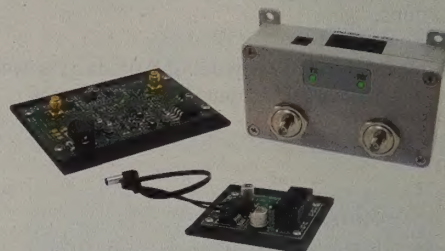
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— **Melissa O'Beirne**
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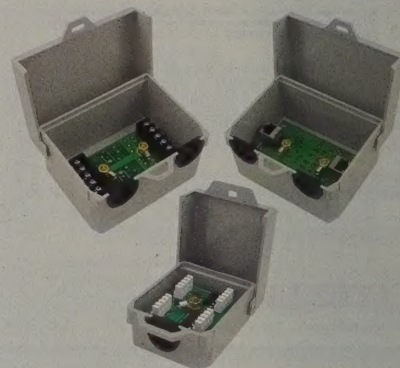
NB141207-2XX
See Page 18

HyperLink's NEMA rated 240 VAC weatherproof enclosures include a mounting plate, and are available with a thermostat controlled cooling fan, and/or heater.



HA2401GM-1000
HA2401SFG-1000
BT-CAT5-M1
See Page 22

HyperLink introduces twelve new "OEM" Wi-Fi amplifiers to its current RF amplifier line. These new models are ideal for OEM type applications.



AL-CAT5HPJW **AL-DSLW**
AL-CAT6PW See Page 29

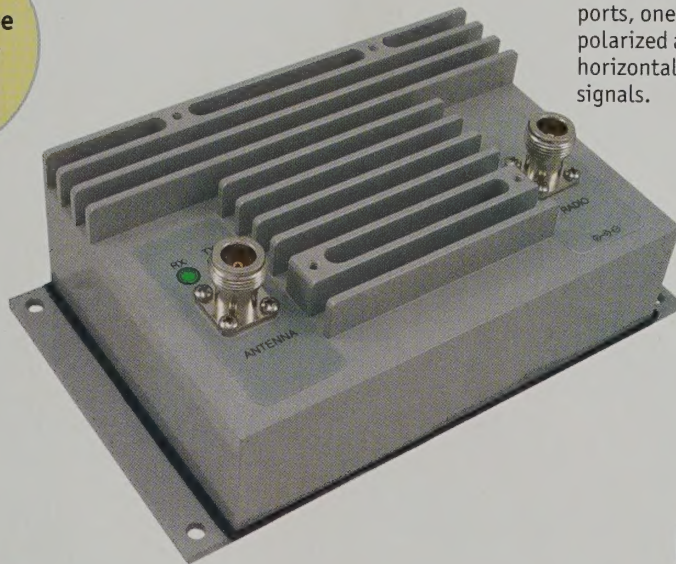
HyperLink introduces seven new additions to its lightning surge protector line. Models include CAT5, CAT6, DSL, Telephone and T1 protectors.



HG5158DP-XX
See Page 9

New to the HyperGain® line is the HG5158DP series dual polarized dish antennas. Designed to operate from 5.1-5.8 GHz, these antennas feature a dual polarity feed system.

Go online to see
all of our new
products



HA905I-DM
See Page 24

HyperAmp® DM series RF amplifiers are compatible with 900 MHz wireless LANs. They are designed to be compatible with high data rate radios utilizing OFDM modulation in the 900 MHz band.

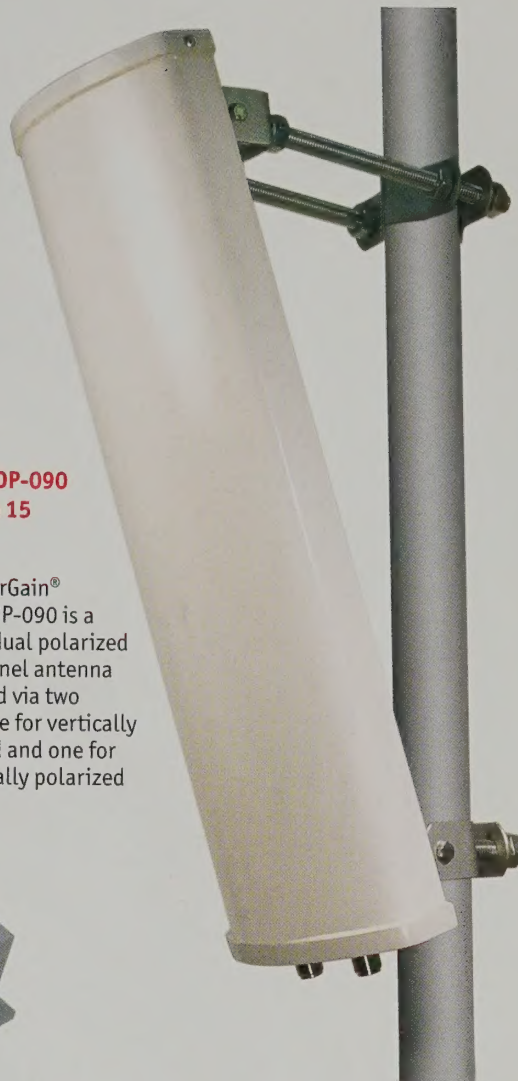
HG2408U-PRO
See Page 5

The HyperGain® HG2408U-PRO is a professional grade Omni-Directional antenna that utilizes a center fed Collinear Dipole array which offers superior performance over the traditional bottom fed Collinear designs.



HG2414DP-090
See Page 15

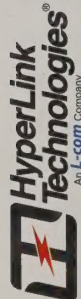
The HyperGain® HG2414DP-090 is a 2.4 GHz dual polarized sector panel antenna that is fed via two ports, one for vertically polarized and one for horizontally polarized signals.



HG2458-14P-090
See Page 15

The HyperGain® HG2458-14P-090 is a dual band sector panel antenna suitable for applications in the 2.4 GHz and 5 GHz band. Actually two antennas in one, each internal antenna is fed via its own individual connector.





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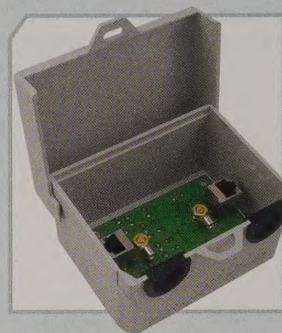
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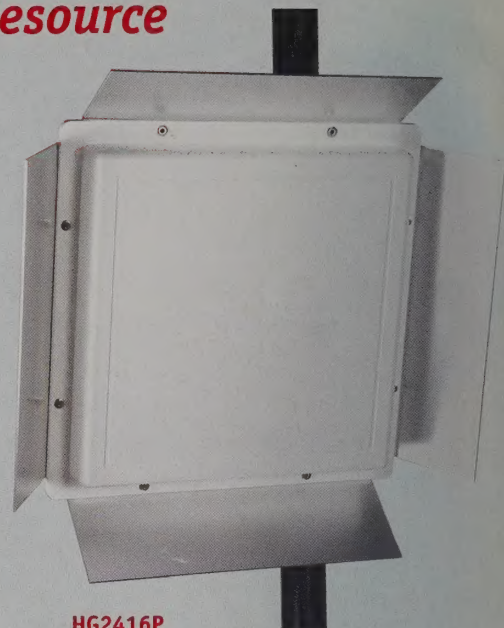
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HG2408U-PRO
See Page 5



AL-CAT5HPJW
See Page 29



HG2416P
See Page 6



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